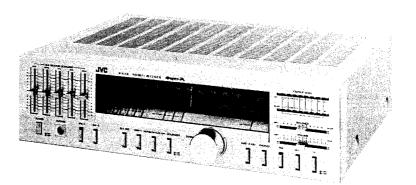
JVC



R-S33L

STEREO RECEIVER



No. 2519 FEB, 1980

Contents

1.	Specifications	1
2.	Removal Procedures	
	2-(1) Top Cover and Bottom Plates	2
	2-(2) Power Transistors	2
3.	Main Parts Location	
	3-(1) Top View	3
	3-(2) Front View	3
	3-(3) Rear View	3
4.	Exploded View and Part Numbers	4
5.	Dial Stringing Procedures	5
6.	FM/MW/LW Tuner Alignment Procedures	
	6-(1) FM Section	6
	6-(2) MW (LW) Section	7
7.	Power Amplifier Idling Current Adjustment	
	Procedure	7

8. Printed Circuit Board Ass'y and Parts List	
8-(1) TFC-28E FM/AM Tuner and Equalizer Amp.	
P.C. Board Ass'y 8	
8-(2) TXX-255 Main Amp., Power Supply and Other	
Functions Split P.C. Board Ass'y . 11	
8-(3) TAP-283 S.E.A. (Sound Effect Amplifier)	
Controls P.C. Board Ass'y 14	
9. Accessories List 15	
10.R-S33L Schematic Diagram16	
11. Packing Materials and Part Numbers 18	

Warning:

When replacing the parts marked with \triangle , be sure to use the designated parts to ensure safety.

1. Specifications

FM Tuner Section (Figures are based upon IHF standard)

Tuning Range : 87.6 MHz - 108 MHz Usable Sensitivity (IHF) : 10.3 dBf (1.8 μ V/300 Ω)

50 dB Quieting Sensitivity

Mono : 14.8 dBf (3.0 μ V/300 Ω) Stereo : 38.3 dBf (45 μ V/300 Ω)

Distortion

Mono : 0.15 % (1 kHz) Stereo : 0.3 % (1 kHz)

Signal to Noise Ratio

Mono : 82 dB (74 dB, DIN)
Stereo : 70 dB (65 dB, DIN)
Selectivity : 65 dB, ±400 kHz
(35 dB, ±300 kHz, DIN)

Capture Ratio : 1.0 dB

IF Rejection : 90 dB at 98 MHz Image Rejection : 60 dB at 98 MHz Stereo Separation : 45 dB at 1 kHz

MW Section

Tuning Range : 525 kHz - 1605 kHzUsable Sensitivity : $300 \mu\text{V/m}$, $30 \mu\text{V}$ (External Antenna)

Signal to Noise Ratio : 50 dB

Distortion : 0.5 % at 10 mV/m Selectivity : 40 dB, ±10 kHz

LW Section

 $\begin{array}{ll} \text{Tuning Range} & : 150 \text{ kHz} - 350 \text{ kHz} \\ \text{Usable Sensitivity} & : 500 \, \mu\text{V/m}, 300 \, \mu\text{V} \end{array}$

(External Antenna)

Signal to Noise Ratio : 50 dB

Distortion : 0.5 % at 10 mV/mSelectivity : 40 dB, $\pm 10 \text{ kHz}$

36 dB, ±9 kHz

Amplifier Section

RMS Power : 40 watts per channel at 8 ohms

(Both channels driven, from 20 Hz to 20 kHz)

RMS Power : 42 watts per channel at 8 ohms

Total Harmonic Distortion: 0.007 % at rated power,

20 - 20 kHz, 8 Ω

0.003 % at rated power,

1 kHz, 8 Ω

Signal to Noise Ratio : Phono 77 dB (1HF short circuited A network) : Phono 77 dB (75 dB, New IHF) Aux/Tape 98 dB

(75 dB, New IHF)

S.E.A. Controls

Center Frequencies : 40 Hz, 250 Hz, 1 kHz, 5 kHz,

15 kHz

Control Range : ±12 dB

Input Sensitivity/

Impedance : Phono 2.5 mV/47 k Ω

Aux 150 mV/50 kΩ Tape 150 mV/50 kΩ Tape (DIN) 150 mV/50 kΩ

Phono Overload : 140 mV at 1 kHz (THD 0.05 %)

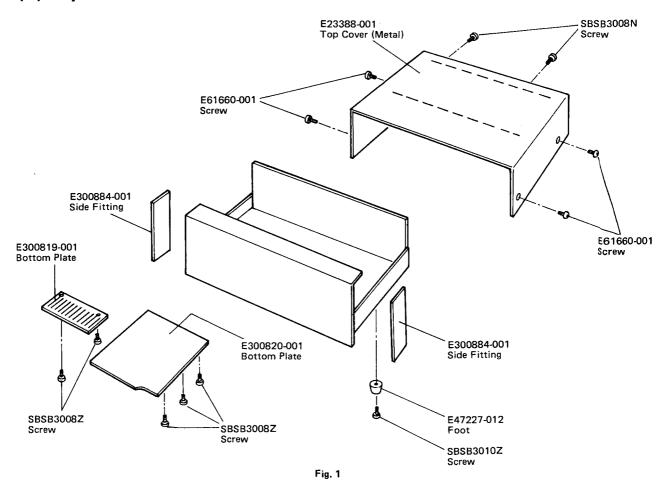
Power Consumption : See page 18

Dimensions and Weight

	Weight		
Height	Width	Depth	Net
11.9 cm	42.2 cm	34.5 cm	7.7 kg

2. Removal Procedures

2-(1) Top Cover and Bottom Plates



2-(2) Power Transistors

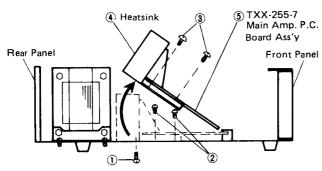


Fig. 2

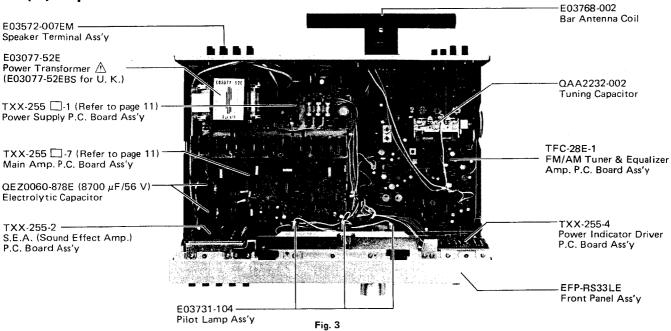
Procedures:

- Step 1: Remove the bottom plate from chassis and 2 screws

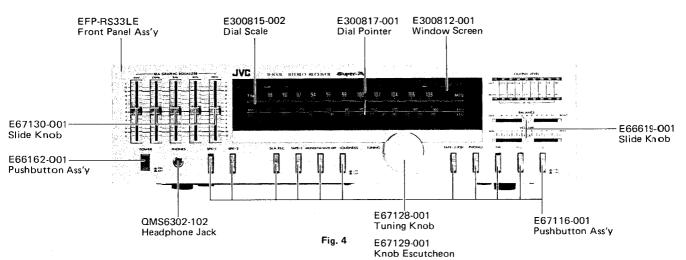
 ① from heatsink ④.
- Step 2: Remove 4 screws 2 .
- Step 3: Raise TXX-255-7 **(5)** from chassis as arrowed on Fig. 2 and then resolder the power transstor's leads.
- Step 4: Remove 4 screws ③ and heatsink from T XX-255-7 and then replace the power transistors.

3. Main Parts Location

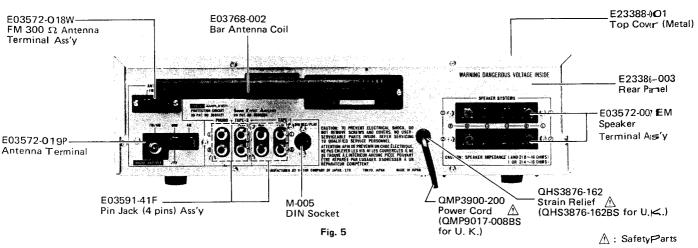
3-(1) Top View



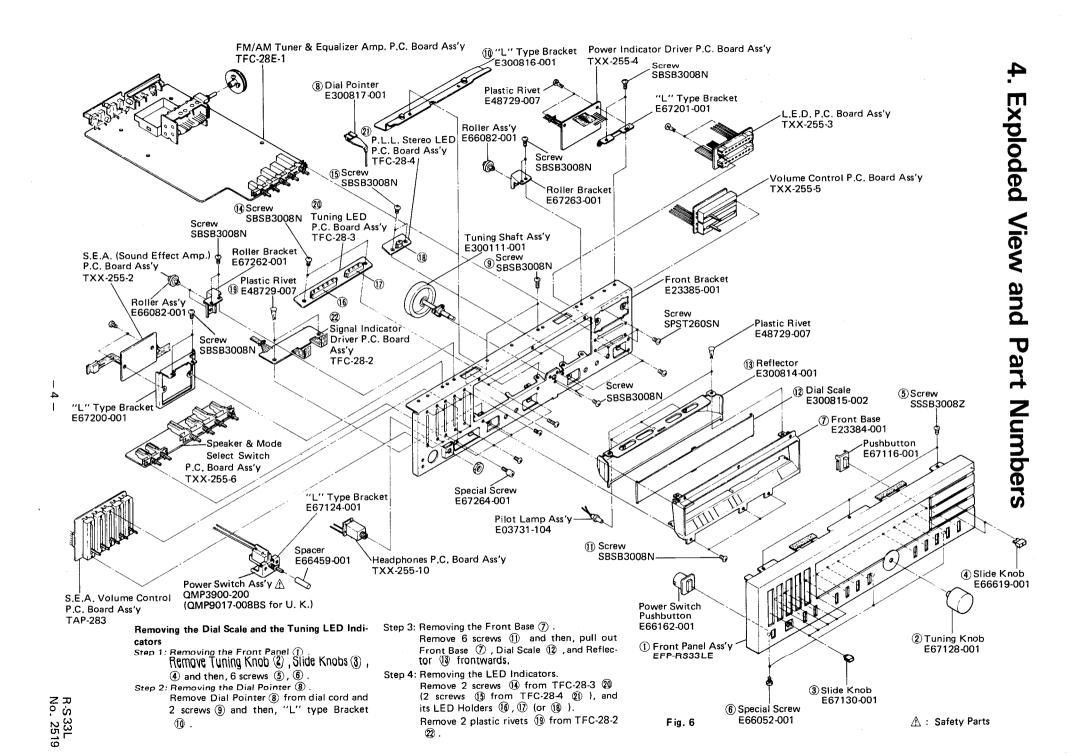
3-(2) Front View



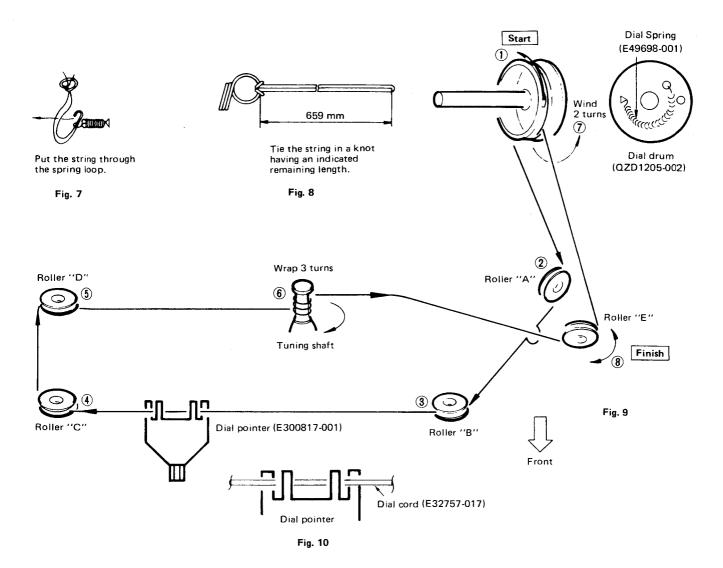
3-(3) Rear View



R-S33L No. 2519



5. Dial Stringing Procedures



- (1) Remove dial pointer and old cord.
- (2) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum.
- (3) Rotate the tuning capacitor dial drum to its maximum counterclockwise.
- (4) Run the dial cord through the slot in the rim of the dial drum. See step ①.
- (5) Guide the dial cord around, over and under rollers "A", "B", "C" and "D". Keep the dial cord taut during this procedure. See step ② to ⑤.
- (6) Pull the dial cord taut and wrap 3 turns counterclockwise around tuning shaft. See step (6).

- (7) Guide the dial cord over the dial drum and wind 2 turns clockwise. See step (7).
- (8) Pull the dial cord taut and set it around roller "E". See step (8).
- (9) Turn the tuning shaft to rotate the dial drum fully counterclockwise and fully clockwise to distribute the tensioning along the dial cord.
- (10) Place the dial cord over and under the tabs on the rear of the dial pointer and place the dial pointer on the top of the dial rail. See Fig. 10.
- (11) Turn the tuning shaft clockwise. Slide the dial pointer to zero(0) calibration marker on the logging scale while holding tuning shaft fully clockwise. Cement the dial pointer to the dial cord to prevent slippage. Allow cement to dry thoroughly.

6. FM/AM Tuner Alignment Procedures

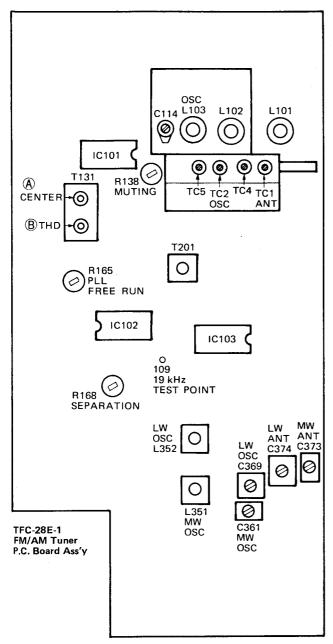


Fig. 11

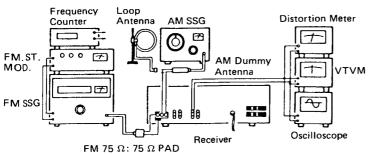


Fig. 12

6-(1) FM Section

Descriminator, Center Meter, Distortion and Signal Gain

- 1. Press to FM position.
- 2. Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
- 3. Connect an Oscilloscope, Distortion Meter and VTVM to the Rec. Out jacks on the rear panel.
- 4. Tune to a frequency where there is no broadcasting.
- 5. Adjust a core indicated arrow (A) of T131 so that the FM Tuning L.E.D. illuminates the center position.
- 6. Set the RF generator to 98 MHz.
- 7. Set the dial pointer to 98 MHz.
- 8. Adjust a core indicated arrow B of T131 so that the distortion is minimized at a value less than 0.4 %.

Tracking and Sensitivity

Precaution: No adjustment is necessary. The tracking and sensitivity have been adjusted properly and completely at the factory. If any special reason occasioned, take the following procedures carefully.

Low Frequency

- 1. Connect an RF generator the antenna terminals on the rear panel through a dummy antenna.
- 2. Set an RF generator to 88 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of $2 \mu V$.
- 3. Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- 4. Set the dial pointer to 88 MHz.
- 5. Adjust the three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequency

- 6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of $2 \mu V$.
- 7. Set the dial pointer to 108 MHz.
- 8. Adjust the FM trimmers C114, TC2 and TC1 in the tuning gang to maximize the output.
- 9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Multiplex and Stereo Separation Multiplex

- 1. Set the Stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to an RF generator.
- 2. Connect an RF generator to the antenna terminals through a dummy antenna.
- 3. Connect a VTVM, an Oscilloscope and a Distortion Meter to the Rec. Out jacks on the rear panel.
- Set the RF generator to 98 MHz and output of 1 mV.
- 5. Set the dial pointer to 98 MHz.
- 6. Connect the Frequency Counter to 19 kHz Test Point. (TP 109).
- 7. Switch off the pilot signal of Stereo Modulator.
- 8. Adjust R165 so that the frequency counter indicates 19 kHz (0~-50 Hz).

Stereo Separation

- Switch the selector of Stereo Modulator to left channel modulation.
- Adjust R168 so that the output of right channel is minimized.
- 11. Switch the selector of the modulator to right channel modulation
- 12. Adjust R168 so that the left channel is minimized.
- 13. Set R168 to a average, if the separation of left and right is different.

Muting Level

Note: No adjustment is necessary. However, if the checkup is required, take the following steps.

- Release the MONO/FM MUTE OFF pushbutton during this adjustment procedures.
- Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- 3. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 8 μ V.
- Turn R138 clockwise and remember the point (or position) at which the muting ceases operating.
- 5. Turn R138 counterclockwise slightly so that the output level drops by 1 dB.
- 6. Attenuate the output of the RF generator to 2 dB from $8\,\mu\text{V}$ of step 2 and check that the muting is still operating.

6-(2) MW (LW) Section

Note: () for LW Alignment Procedures

Tracking and Sensitivity

Low Frequency

- Connect the RF generator to the antenna terminals on the rear panel, set this to 600 kHz (160 kHz) with 30 % modulation at 400 Hz.
- Connect an AC VTVM and an oscilloscope to the Rec. out jacks on the rear panel.
- 3. Set the dial pointer to 600 kHz (160 kHz).
- Adjust OSC coil L351 (L352) and the ferrite bar antenna core to maximize the output signal. Left ferrite bar is for MW (right ferrite bar is for LW). Refer to photo below.

High Frequency

- Set the RF generator to 1400 kHz (350 kHz) with 30% modulation at 400 Hz.
- 6. Set the dial pointer to 1400 kHz (350 kHz).
- Adjust the trimmers C361 (C369) and C373 (C374) in the tuning gang so that the output signal is maximized.
- 8. Repeat these high and low frequencies adjustment procedures alternately until maximum sensitivity is obtained.



MW/LW Ferrite Bar Antenna Adjustments

7. Power Amplifier Idling Current Adjustment Procedure

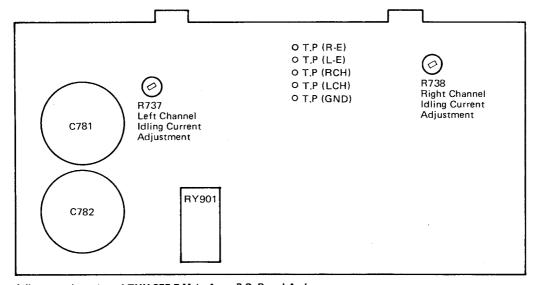


Fig. 13

Adjustment Location of TXX-255-7 Main Amp. P.C. Board Ass'y

Precaution:

- Allow the set to warm up at least 5 minutes before connecting a DC VTVM.
- (2) Must keep the heatsinks cooling to prevent overheating and consequent destruction of the semiconductor junction and set the volume control to minimum during these adjustment procedures.
- (): for Right channel Adjustment

Procedures:

- Turn R737 and (R738) fully counterclockwise before the power switch on.
- Connect a DC VTVM to the Test Point L-CH and L-E (R-CH and R-E).
- 3. Adjust R737 (R738) for DC VTVM reading of 5 mV.

8. Printed Circuit Board Ass'y and Parts list

8-(1) TFC-28E FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y

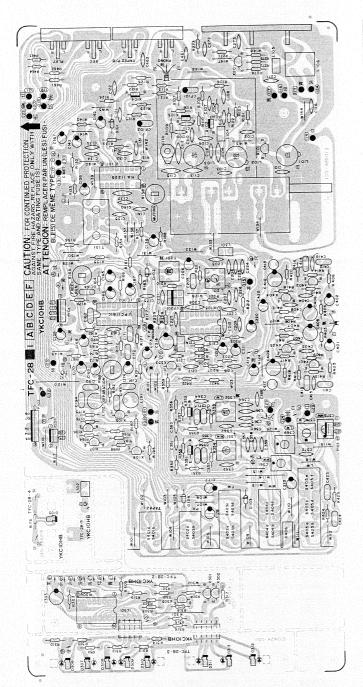


Fig. 14

Item No.	Part Number	F	Rating	Descrip	tion
		Pc	fT		Maker
X101	2SK168(E,F)	0.2 W		FET	Hitachi
X102	2SC535(B,C)	0.1 W	940 MHz	Silicon	"
X103	2SC1342(B,C)	.,	410 MHz	••	"
X104	2SC535(B,C)	"	940 MHz	"	••
X105	2SC458(C)	0.2 W	230 MHz	"	"
X106	2SC458(C)	11	**	"	••
X107	2SC458(C)	"	"	,,	"
X108	2SA1029(C)	"	200 MHz	"	"
X201	2SC461(C)	//	230 MHz	"	• • • • • • • • • • • • • • • • • • • •
X301	2SC458(C)	"	.,	"	.,

Each Individual P.C. Board Location

① TFC-28E-1 : FM/AM Tuner & Equalizer

Amp. P.C. Board Ass'y: Signal Indicator Driver P.C.

② TFC-28-2 : Signal Indicator Driver P.O. Board Ass'y

③ TFC-28-3 : Signal L.É.D. P.C. Board Ass'y

(4) TFC-28-4 : PLL STEREO L.E.D. P.C. Board Ass'y

5 TFC-28-5 : Antenna Coil P.C. Board

Ass'y

The specific symbols (\pm , \pm , \pm , \pm , \pm , \pm) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

Transistors

1

③ Fig. 15

Item No.	Part Number	Rating		Descrip	tion
		Pc	fT		Maker
X302	2SC458(C)	0.2 W	200 MHz	Silicon	Hitachi
X303	2SA1029(C)	••	200 MHz	"	",
X351	2SC461(B)	"	230 MHz	"	",
X352	2SC461(B)	"	"	"	"
X353	2SC458(C)	"	"	"	"
X401	2SA872AV(E)	0.3 W	120 MHz	,,	"
X402	2SA872AV(E)	"	.,	"	",
X403	2SC1775AV(F)	0.2 W	200 MHz	"	"
X404	2SC1775AV(F)	"		",	- 77

Integrated Circuits

Item No.	Part Number	Part Number Rating	Desc	Description	
		Pc		Maker	
IC101	HA11225	0.59 W	IC	Hitachi	
IC102	UPC1161C		",	NEC	
IC103	HA1197	0.45 W	,,	Hitachi	
IC301	IR2434	1.0 W	"	Sharp	

Diodes

Item No.	Part Number	Rating	Descrip	tion
				∠ laker
D101	1S2076-31		Silicon	Hitachi
D102	1S2076-31		"	"
D103	1S2076-31		",	"
D104	1S2076-31		"	**
D308	SLB-26UR		LED	Toyo Dengu
D309	SLB-26UR		**	"
D310	SLB-26UR			"
D312	SLB-26UR		'''	"
D306	SLB-26UR		,,	,,
D307	SLB-26UR		.,	"
D311	SLB-26UR		"	,,
D313	SLB-26GG		"	"

Coils & Transformers

00113 0	Cons or managements					
Item No.	Part Number	Rating	Description			
L101	E03477-031		FM ANT Coil			
L102	E03477-035		FM RF Coil			
L103	E03477-034		FM OSC Coil			
L104	E03522-1R5KY		Choke Coil			
L105	E03522-2R2KY		"			
L106	E03177-005		BALUN			
L191	Y00118-103		MPX 19 kHz Coil			
L192	Y00118-103		"			
L201	E03079-36		AM OSC Coil			
L202	E03522-391KY		Choke Coil			
L301	E03522-2R2KY		"			
L302	E3522-2R2KY		"			
L351	E03079-39		MW OSC Coil			
L352	E03079-38		LW OSC Coil			
T131	E03793-001		FM DET Coil			
T201	E03613-017		AM IFT			

Filters

Item No.	Part Number	Rating	Description
CF101	E03357-009		Ceramic Filter
CF102	E03357-009		"
CF201	E03613-019		21

Capacitors

Item No.	Part Number	Rating		Description
C101	QCS31HJ-120Z	12 pF	50 V	Ceramic
C102	QCF31HP-103Z	0.01 μF	"	"
C103	QCS31HJ-150Z	15 pF	"	"
C104	QCS21HJ-3R0	3 pF	"	"
C105	QCS21HJ-2R0	2 pF	"	**
C106	QCS31HJ-151Z	160 pF	"	"
C107	QCF31HP-103Z	0.01 μF	"	"
C108	QCF31HP-103Z	"	"	"
C109	QCF21HP-103	"	"	"
C110	QCT25CH-100Z	10 pF	"	"
C111	QCT25CH-220Z	22 pF	"	"
C112	QCT05CH-7R0	7 pF	"	"
C113	QCT05PH-120	12 pF	"	"
C114	QAT3001-014			Trimmer
C115	QCT05RH-120	12 pF	50 V	Ceramic
C116	QCS31HJ-221Z	220 pF	"	"
C121	QCF31HP-223Z	0.022 μF	"	"
C122	QCF31HP-223Z	".	"	"
C131	QCF31HP-223Z	••	"	"
C132	QCF31HP-223Z	"	"	"
C133	QCS31HJ-330Z	33 pF	"	"
C134	QCF31HP-223Z	0.022 μF	"	"
C135	QCF31HP-223Z	"	"	"
C136	QET61AR-107Z	100 μF	10 V	Electrolytic
C137	QCF21HP-223	0.022 μF	50 V	Ceramic
C138	QET61CR-476Z	47 μF	16 V	Electrolytic
C139	QET61HR-474Z	0.47 μF	50 V	"
C140	QCF31HP-223Z	0.022 µF	"	Ceramic
C141	QCF21HP-223	"	"	"
C142	QET61ER-106Z	10 μF	25 V	Electrolytic
C143	QET61HR-474Z	0.47 μF	50 V	"
C161	QET61ER-106Z	10 μF	25 V	"
C162	QFM31HK-473	0.047 μF		Mylar
C163	QCS31HJ-101Z	100 pF	"	Ceramic
C164	QFP31HJ-471	470 pF	"	Polypropyrene
C165	QEB51EM-335	3.3 μF	25 V	Low Leak Current
	1			Electrolytic
C166	QEB51HM-105	1 μF	50 V	"
C167	QEB51HM-224	0.22 μF	"	"
C168	QET61CR-107Z	100 μF	16 V	Electrolytic

Capacitors

C169	Item No.	Part Number	Rating		Description
C171 QFM31HK-152Z 1000 pF 7	C169	QET61ER-106Z	10 μF	25 V	Electrolytic
C171			"		
C172					Mylar
C172					,,
C173				,,	,,
C174 QET61HR-225				,,	Electrolytic
C177		l i		"	"
C178		QCF31HP-223Z	0.022 μF	••	Ceramic
C191 QFM31HK-682Z	C177	QET61HR-474Z		"	
C192 QFM31HK-682Z " " " " " " " " " " " " " " " " " " "	C178	QET61HR-474Z			"
C192		1	6800 pF		Mylar
C194			1900 pE		,
C201 QCF31HP-223Z 0.022 μF " Ceramic C203 QCT25UJ-150Z 15 pF " " C204 QCS31HJ-330Z 33 pF " " C206 QEF61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z " " " C209 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61ER-106Z 1 μF " Electrolytic C212 QET61HP-223Z " " " C211 QET61HP-103Z 1 μF " Electrolytic C212 QET31HP-233Z 1002 μF 50 V Mylar C214 QCF31HP-103Z 100 μF 50 V Mylar C215 QCS31HJ-313Z 330 pF " " " C216 QCF31HP-103Z 0.022 μF " " " C217 QCF31HP-360Z 10 μF 50 V				,,	,,
C203 QCT25UJ-150Z 15 pF " " C204 QCS31HJ-330Z 33 pF " Mylar C206 QET61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z " " " C209 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61HR-105Z 1 μF " Electrolytic C212 QET61HR-105Z 1 μF " " C213 QFM31HK-102Z 100 μF 25 V " C214 QCF31HP-223Z 0.022 μF " " C215 QCS31HJ-331Z 30 pF " " C216 QCF31HP-223Z 0.022 μF " " C217 QCF31HP-223Z 0.022 μF " " C218 QCF31HP-223Z 0.022 μF " " C220 QCT36CH-151 " " " C223			0 022 uE	',,,	Ceramic
C204 QCS31HJ-330Z 3 p F " Mylar C205 QET61ER-106Z 10 μF " Mylar C206 QCF31HP-223Z 0.022 μF 50 V Ceramic C208 QCF21HP-223Z " " " C209 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61ER-106Z 10 μF 25 V Wlylar C212 QET61HP-223Z 1000 pF 50 V Mylar C214 QCF31HP-223Z 0.022 μF " " C214 QCF31HP-103Z 0.022 μF " " C216 QCS31HJ-331Z 330 pF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C221 QCS31HJ-30Z 33 pF " " C224 QCT26CH-151 " " " <td< td=""><td>ř.</td><td>k i</td><td></td><td>"</td><td></td></td<>	ř.	k i		"	
C205 QET61ER-106Z 10 μF 25 V Electrolytic				"	"
C207 QCF31HP-223Z 0.022 μF 50 V Ceramic C208 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61HR-105Z 1 μF " Electrolytic C212 QET61HR-106Z 10 μF 50 V Mylar C213 QCR31HP-223Z 0.022 μF " " C214 QCF31HP-23Z 0.022 μF " " C215 QCS31HJ-331Z 330 pF " " C216 QCF31HP-223Z 0.022 μF " " C217 QCF31HP-23Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 10 μF 50 V Ceramic C221 QCS31HJ-360Z 47 μF " " C224 QCT26CH-151 " " " C225 QCS31HJ-330Z 33 pF " "					l '
C208 QCF21HP-223 "					
C209 QCF31HP-223Z "					
C210 QCF31HP-223Z " " Electrolytic C211 QET61ER-106Z 10 μF 25 V " C212 QET61ER-106Z 10 μF 50 V Mylar C214 QCF31HP-223Z 0.022 μF " " C215 QCS31HJ-331Z 330 pF " " C216 QCF31HP-103Z 0.1 μF " " C217 QCF31HP-203Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 56 pF 50 V Ceramic C221 QCS31HJ-306Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C224 QCT36CH-151 " " " C225 QCS31HJ-330Z 33 pF " " C271 QCF31HP-473Z 0.047 μF " " C303 QET61CR-107Z 100 μF 16 V Electrolytic <td></td> <td>· ·</td> <td>.,</td> <td></td> <td>1 ' </td>		· ·	.,		1 '
C211 QET61HR-105Z 1 μF			"	**	"
C213 QFM31HK-102Z 1000 pF 50 V Mylar C214 QCF31HP-223Z 330 pF " " C215 QCS31HP-103Z 31 pF " " C216 QCF31HP-103Z 0.1 μF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 10 μF 25 V " C221 QCS31HJ-60Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C225 QCS31HJ-300Z 33 pF " " C226 QCS31HJ-370Z 47 pF " " C271 QCF31HP-473Z 0.047 μF " " C303 QET61CR-107Z 100 μF 16 V Electrolytic C330 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z " " "	•		1 μF	"	Electrolytic
C214 QCF31HP-223Z	C212	QET61ER-106Z	10 μF	25 V	,,
C215 QCS31HJ-331Z 330 pF " " " C216 QCF31HP-103Z 0.1 μF " " " C217 QCF31HP-223Z 0.022 μF " " " C218 QET61CR-476Z 47 μF 16 V Electrolytic Electrolytic C220 QET61ER-106Z 10 μF 25 V " " C221 QCS31HJ-560Z 56 pF 50 V Ceramic " C223 QCT26CH-151 " " " " C225 QCS31HJ-300Z 33 pF " " " " C225 QCS31HJ-470Z 0.047 μF "	C213			50 V	Mylar
C216 QCF31HP-103Z				"	
C216		E .			
C217					
C220	1	1	1		
C221 QCS31HJ-560Z C223 QCT26CH-151 150 pF " " " " " " " " " " " " " " " " " "	1	1	,		"
C224 QCT26CH-151 "" "" "" C225 QCS31HJ-470Z 47 pF "" "" C226 QCS31HJ-330Z 33 pF "" "" C271 QCF31HP-473Z 0.047 μF "" "" C272 QCF31HP-473Z "" "" "" C273 QCF31HP-223Z 0.022 μF "" "" C303 QET61CR-107Z 100 μF 16 V Electrolytic C304 QET61CR-107Z 100 μF 16 V "" C351 QCF31HP-473Z "" "" "" C351 QCF31HP-473Z "" "" "" C352 QCF31HP-473Z "" "" "" C353 QCS31HJ-100Z 10 pF "" "" C355 QFM31HK-103Z 0.01 μF "" Mylar C356 QFM31HK-153Z 0.01 μF "" "" C357 QCT25PH-151Z 150 pF "" "" C359 QCS31HJ-330Z 33 pF "" "" C360 QCT25UJ-100Z 10 pF "" "" C361 QAT20001-001					Ceramic
C225	C223	QCT26CH-151	150 pF	"	"
C226	C224	QCT26CH-151	"	1	
C226					
C271 QCF31HP473Z " " " " " " " " " " " " " " " " " " "		ľ			<i>"</i>
C273	1	l	0.047 με		"
C303 QET61CR-107Z 100 μF 16 V Electrolytic C303 QET61HR-105Z 1 μF 50 V " C304 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z 0.047 μF 50 V Ceramic C352 QCF31HP-473Z " " " C353 QCS31HJ-100Z 10 pF " " C356 QFM31HK-153Z 0.011 μF " Mylar C356 QFM31HK-153Z 0.015 μF " " C357 QCT25PH-151Z " " " " C358 QCT25PH-151Z " " " " C359 QCS31HJ-300Z 10 pF " " " C360 QCT25UJ-100Z 10 pF " " " C361 QAT20001-001 C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HP-473Z 0.047 μF 50 V Ceramic C366 QCT25UJ-270Z 27 pF " " " C366 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z " " " " C368 QCT25CH-680Z " " " " C369 QAT2001-005 C370 QFM31HK-333Z 0.033 μF " " " C371 QFM31HK-333Z 18 pF " " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C375 QET61HR-474Z 0.47 μF 50 V Electrolytic			0.022 uE		,,
C303 QET61HR-105Z C304 QET61CR-107Z C351 QCF31HP-473Z C351 QCF31HP-473Z C353 QCS31HJ-100Z C355 QFM31HK-103Z C355 QFM31HK-103Z C356 QFM31HK-153Z C357 QCT25PH-151Z C359 QCS31HJ-330Z C359 QCS31HJ-330Z C360 QCT25UJ-100Z C361 QAT20001-001 C362 QCF31HP-473Z C364 QCS31HJ-473Z C365 QCF31HP-473Z C366 QCT25UJ-270Z C366 QCT25UJ-270Z C366 QCT25UJ-270Z C366 QCT25UJ-270Z C366 QCT25UJ-270Z C366 QCT25CH-680Z C367 QCT25CH-680Z C369 QAT2001-005 C370 QFM31HK-223Z QCS3HJ-180Z R3F C374 QAT2001-001 C375 QCF31HJ-180Z R3F C374 QAT2001-001 C375 QCF61HR-474Z Q.47 μF 50 V Electrolytic C375 QCT61HR-474Z C374 QAT2001-001 C375 QCF61HR-474Z Q.47 μF 50 V Electrolytic C401 QCF61HR-475Z Q.47 μF 50 V Electrolytic C401 QCF61HR-475Z Q.47 μF 50 V Electrolytic C401 QCF61HR-475Z Q.47 μF 70 V C75 C75 QCF61HR-475Z Q.47 μF 70 V Electrolytic C401 QCF61HR-475Z Q.47 μF 70 V C75 QCF6 C75 QCF6 QCF6 QCF6 QCF6 QCF6 QCF6 QCF6 QCF6	1			16 V	Electrolytic
C351 QCF31HP-473Z	C303	QET61HR-105Z	1 μF	50 V	"
C352 QCF31HP473Z " " " " " " " " " " " " " " " " " " "	i .				1
C352	h				
C355 QFM31HK-103Z 0.01 μF " Mylar C356 QFM31HK-153Z 0.01 μF " " Ceramic C357 QCT25PH-151Z 150 pF " Ceramic C358 QCT25PH-151Z " " " " " " " " " " " " " " " " " " "					
C356 QFM31HK-153Z					ì
C357 QCT25PH-151Z 150 pF " Ceramic C358 QCT25PH-151Z " " " C359 QCS31HJ-330Z 33 pF " " C360 QCT25UJ-100Z 10 pF " Trimmer C361 QAT20001-001 C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HP-473Z " " " C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z " " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-680Z " " " " C369 QAT2001-005 C370 QFM31HK-233Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "					
C358	1			"	Ceramic
C360	C358	QCT25PH-151Z	"	1	!
C361 QAT20001-001 C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HJ-560Z 56 pF " " " C364 QCS31HJ-560Z 27 pF " " " C366 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z 68 pF " " " C368 QCT25CH-680Z " " " " " C368 QCT25CH-680Z " " " " " " C369 QAT2001-005 C370 QFM31HK-233Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " " "				1	1
C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HP-473Z " " " C364 QCS31HJ-560Z 56 pF " " C365 QCT25UJ-270Z 27 pF " " C366 QCT25CH-680Z 68 pF " " C367 QCT25CH-680Z " " " C368 QCT25CH-680Z " " " C369 QAT2001-005 C370 QFM31HK-233Z 0.022 μF 50 V WIRD C371 QFM31HK-333Z 0.033 μF " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "	-	1	10 pF	"	
C363 QCF31HP-473Z " " " " " " " " " " " " " " " " " " "	1		0 047 "	50 V	1 ' '
C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " C366 QCT25CH-680Z 68 pF " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-220Z 22 pF " " Trimmer C369 QAT2001-005 C370 QFM31HK-223Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "			ν μΓ		
C365 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z 68 pF " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-220Z 22 pF " " Trimmer C369 QAT2001-005 C370 QFM31HK-223Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "	1	l .	56 pF		
C366 QCT25CH-680Z				"	"
C368 QCT25CH-220Z 22 pF " " C369 QAT2001-005 C370 QFM31HK-223Z 0.022 µF 50 V Mylar C371 QFM31HK-333Z 0.033 µF " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 µF 50 V Electrolytic C401 QET61HR-475Z 4.7 µF " "	i i	1		1	1
C369 QAT2001-005 C370 QFM31HK-223Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "					
C370 QFM31HK-223Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " Ceramic C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "			22 pF	"	
C371 QFM31HK-333Z 0.033 μF " " Ceramic C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 Trimmer C374 QAT2001-001 " C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "	1	1	0.022	50.17	
C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 Trimmer C374 QAT2001-001 " C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "		1	1	30 V	iviylar ''
C373 QAT2001-005 C374 QAT2001-001 "Trimmer C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "		1	1		Ceramic
C374 QAT2001-001 " " " " C375 QET61HR-474Z 0.47 μF 50 V Electrolytic " " " " " " " " "				<u> </u>	
C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " "	1		1	1	
1 1 1	1			50 V	Electrolytic
U4UZ UE 161HK-4/5Z "	1		4.7 μF	"	"
	C402	UE 161HH-475Z	<u> </u>		<u>"</u>

Capacitors

Capaci	Capacitors						
Item No.	Part Number	Rating		Description			
C403	QCS31HJ-471Z	470 pF	50 V	Ceramic			
C404	QCS31HJ-471Z	"	"	"			
C405	QET60JR-227Z	220 μF	6.3 V	Electrolytic			
C406	QET60JR-227Z	"	"	"			
C407	QCS31HJ-470Z	47 pF	50 V	Ceramic			
C408	QCS31HJ-470Z	"	"	<i>"</i>			
C409	QET60JR-227Z	220 μF	6.3 V	Electrolytic			
C410	QET60JR-227Z	"	"	"			
C411	QFM31HK-153Z	0.015 μF	50 V	Mylar			
C412	QFM31HK-153Z	"	"	''			
C413	QFM31HK-472Z	4700 pF	"	"			
C414	QFM31HK-472Z	"	"	"			
C415	QCS31HJ-471Z	470 pF	"	Ceramic			
C416	QCS31HJ-471Z	"	"	"			
C417	QEZ0046-105	1 μF	"	Electrolytic			
C418	QEZ0046-105	"	"	"			
C419	QET61ER-476Z	47 μF	25 V	"			
C420	QET61ER-476Z	"	"	"			
C423	QFM31HK-153Z	0.015 μF		Mylar			
C424	QFM31HK-153Z	"	"	"			
C461	QCF31HP-223Z	0.022 μF	"	Ceramic			
C462	QCF31HP-473Z	0.047 µF	"	"			

Resistors

nesisto		Rating		Description	`
Item No.	Part Number				<u> </u>
R101	QRD141J-391SY	390 Ω	1/4 W	Carbon	
R102	QRD141J-472SY		,,	.,	
R103	QRD141J-223SY	22 kΩ	,,	,,	
R104	ORD141J-102SY	1 kΩ	,,	,,	
R105	QRD141J-101SY	100 Ω			
R106	QRD141J-561SY	560 Ω	"	"	
R107	QRD141J-222SY	2.2 kΩ	"	"	
R108	QRD141J-103SY	10 kΩ	"	"	
R109	QRD141J-682SY	6.8 kΩ	"	"	
R110	QRD141J-272SY	2,7 kΩ			
R113	QRD149J-220S	22 Ω	"	"	\triangle
R121	QRD141J-221SY	220 Ω	"	"	
R122	QRD141J-273SY	27 kΩ	"	"	
R123	QRD141J-103SY	10 kΩ	"	"	
R124	QRD141J-471SY	470 Ω	"	"	
R125	QRD141J-101SY	100 Ω	"	"	
R126	QRD141J-331SY	330 Ω	"	"	
R131	QRD141J-391SY	390 Ω	"	"	
R132	QRD141J-271SY	270 Ω	"	,,	
R133	QRD141J-123SY	12 kΩ	"	"	
R134	QRD141J-332SY	3.3 kΩ	",	"	
R135	QRD149J-470S	47 Ω	,,	"	\triangle
R136	QRD141J-472SY	4.7 kΩ	"	"	
R137	QRD141J-823SY	82 kΩ	"	"	
R138	QVP4A0B-223	22 kΩ		Variable	
R139	ORD141J-473SY	47 kΩ	1/4 W	Carbon	
R140	QRD141J-123SY	12 kΩ	"	"	
R141	QRD141J-103SY	10 kΩ	"	"	
R161	QRD141J-363SY	36 kΩ	"	"	
R162	QRD141J-393S	39 kΩ	"	"	
R163	QRD141J-683SY	68 kΩ	"	"	
R164	QRD141J-163SY	16 kΩ	"		
R165	QVP4A0B-472	4.7 kΩ		Variable	
R166	QRD141J-102SY	1 kΩ	1/4 W	Carbon	
R167	QRD149J-330S	33 Ω	"	"	\triangle
R168	QVP4A0B-474	470 kΩ	 	Variable	
R169	QRD141J-223SY		1/4 W	Carbon	
R170	QRD141J-223SY	1	"	,,	
R171	QRD141J-513SY	1	"	"	
R172	QRD141J-513SY	1	"		
R173	ORD141J-103SY	 	"	,,	
R174	QRD141J-103SY	1 '	"	"	
R175	QRD141J-332SY		"		
R176	QRD141J-332SY		"	"	
R177	QRD141J-102SY	1	"	"	
11177	14	1			

∴ Safety Parts

Resistors

Item No. Part Number	Resistors						
R179	Item No.	Part Number	Rat	ting	Description		
R191 QRD141J-104SY 100 kΩ " R192 QRD141J-104SY 100 kΩ " " R193 QRD141J-104SY 100 kΩ " " R195 QRD141J-103SY 100 kΩ " " R196 QRD141J-223SY 22 kΩ " " R197 QRD141J-223SY " " " R201 QRD141J-223SY " " " R202 QRD141J-103SY 10 kΩ " " R203 QRD141J-331SY 330 Ω " " R204 QRD141J-331SY 330 Ω " " R205 QRD141J-1652SY 5.6 kΩ " " R206 QRD141J-156SY 5.6 kΩ " " R208 QRD141J-151SY 100 kΩ " " R209 QRD141J-151SY 150 Ω " " R211 QRD141J-151SY 150 Ω " " R212 QRD141J-151SY 150 Ω " " R212 QRD141J-151SY 150 Ω	R178	QRD141J-222SY	2,2 kΩ	1/4 W	Carbon		
R192 QRD141J-332SY " " " R194 QRD141J-104SY 100 kΩ " " " R195 QRD141J-103SY 10 kΩ " <td>R179</td> <td>QRD141J-104SY</td> <td>100 kΩ</td> <td></td> <td></td>	R179	QRD141J-104SY	100 kΩ				
R194	R191	QRD141J-332SY	3.3 kΩ				
R194 QRD141J-103SY 10 kΩ " " R195 QRD141J-223SY 10 kΩ " " " R196 QRD141J-223SY " " " " R197 QRD141J-223SY " " " " R198 QRD141J-223SY " " " " R201 QRD141J-103SY 10 kΩ " " " R202 QRD141J-103SY 10 kΩ " " " R203 QRD141J-103SY 10 kΩ " " " R204 QRD141J-103SY 10 kΩ " " " R204 QRD141J-164SY 100 kΩ " " " R206 QRD141J-151SY 150 Ω " " " R207 QRD141J-151SY 150 Ω " " " R210 QRD141J-151SY 150 Ω " " " R211 QRD141J-153SY 150 Ω " " " R211 QRD141J-102SY 18 kΩ "	R192	QRD141J-332SY	"				
R195 ORD141J-103SY 10 kΩ " R196 ORD141J-223SY 22 kΩ " " R197 ORD141J-223SY " " " R201 ORD141J-103SY " " " R202 ORD141J-103SY " " " R203 ORD141J-31SY 330 Ω " " R204 ORD141J-31SY 330 Ω " " R205 ORD141J-103SY " " " R206 QRD141J-151SY 100 kΩ " " R207 QRD141J-151SY 100 kΩ " " R208 RQR141J-151SY 150 Ω " " R209 QRD141J-151SY 150 Ω " " R210 QRD141J-151SY 150 Ω " " R211 QRD141J-161SY 150 Ω " " R212 QRD141J-13SY 150 Ω " " R212 QRD141J-14SY 150 Ω " " R212 QRD141J-14SY 150 Ω "	R193	QRD141J-104SY	100 kΩ		"		
R196 QRD141J-223SY " " " R197 QRD141J-223SY " " " " R198 QRD141J-223SY " <	R194	QRD141J-393SY	39 kΩ	"	"		
R195 GRD141J-223SY " " R197 QRD141J-223SY " " " R201 QRD141J-103SY 15 kΩ " " R202 QRD141J-103SY 15 kΩ " " R204 QRD141J-31SY 330 Ω " " R205 QRD141J-31SY 350 Ω " " R207 QRD141J-16SY 150 Ω " " R208 QRD141J-15ISY 150 Ω " " R209 QRD141J-15ISY 150 Ω " " R210 QRD141J-15ISY 150 Ω " " R210 QRD141J-15ISY 150 Ω " " R211 QRD141J-56ISY 560 Ω " " R211 QRD141J-333SY 350 Ω " " R211 QRD141J-333SY 350 Ω " " R212 QRD141J-333SY 35 kΩ " " R272 QRD141J-333SY 35 kΩ " " R275 QRD141J-36SSY 56 kΩ " <td>R195</td> <td>QRD141J-103SY</td> <td>10 kΩ</td> <td></td> <td>!</td>	R195	QRD141J-103SY	10 kΩ		!		
R198 QRD141J-122SY " " R201 QRD141J-103SY 1.0 kΩ " " R202 QRD141J-103SY " " " R204 QRD141J-331SY 330 Ω " " R205 QRD141J-562SY 5.6 kΩ " " R206 QRD141J-562SY 5.6 kΩ " " R207 QRD141J-161SY 100 kΩ " " R208 QRD141J-151SY 100 kΩ " " R209 QRD141J-151SY 150 Ω " " R210 QRD141J-151SY 150 Ω " " R211 QRD141J-161SY 150 Ω " " R212 QRD141J-161SY 150 Ω " " R212 QRD141J-162SY 18 kΩ " " R273 QRD141J-163SY 18 kΩ	R196	QRD141J-223SY	22 kΩ	"	!		
R201 ARD141J-1223SY To kΩ To	R197	QRD141J-223SY	i				
R201 QRD14IJ-103SY " " R203 QRD14IJ-103SY " " " R204 QRD14IJ-362SY 5.6 kΩ " " R206 QRD14IJ-164SY 100 kΩ " " R207 QRD14IJ-151SY 150 Ω " " R209 QRD14IJ-151SY 150 Ω " " R210 QRD14IJ-151SY 150 Ω " " R210 QRD14IJ-161SY 150 Ω " " R210 QRD14IJ-161SY 150 Ω " " R211 QRD14IJ-561SY 560 Ω " " " R211 QRD14IJ-561SY 560 Ω " " " R211 QRD14IJ-163SY 150 Ω " " " R211 QRD14IJ-104SY 150 Ω " " " R212 QRD14IJ-333SY 330 Ω " " " " R274 QRD14IJ-363SY 56 kΩ " " " " " " " " "	R198	QRD141J-223SY	"				
R202 GRD14IJ-103SY " " " " " " " " " " " " " " " " " " "					1		
R203 QRD14IJ-33ISY 330 Ω " R206 QRD14IJ-562SY 5.6 kΩ " " R207 QRD14IJ-16SY 1.00 kΩ " " R208 QRD14IJ-15ISY 150 Ω " " R209 QRD14IJ-15ISY 150 Ω " " R210 QRD14IJ-16SY 560 Ω " " R211 QRD14IJ-16SY 150 Ω " " R211 QRD14IJ-16SY 150 Ω " " R211 QRD14IJ-16SY 150 Ω " " R271 QRD14IJ-16ASY 150 Ω " " R271 QRD14IJ-16ASY 150 Ω " " R272 QRD14IJ-16SSY 15 kΩ " " R273 QRD14IJ-16SSY 150 kΩ " " R301 QRD14IJ-16SSY 150 kΩ " " R302 QRD14IJ-103SY 10 kΩ " " R303 QRD14IJ-102SY 1 kΩ " " R304 QRD14IJ-102SY 1 kΩ				•	1		
R204 QRD14IJ-333SY 330 Ω " R206 QRD14IJ-222SY 100 kΩ " R207 QRD14IJ-16SY 150 Ω " R208 QRD14IJ-15ISY 150 Ω " R209 QRD14IJ-15ISY 150 Ω " R210 QRD14IJ-15ISY 150 Ω " R211 QRD14IJ-16SISY 150 Ω " R212 QRD14IJ-104SY 100 kΩ " R271 QRD14IJ-16SSY 150 Ω " R272 QRD14IJ-15SSY 15 kΩ " R273 QRD14IJ-16SSY 15 kΩ " R274 QRD14IJ-16SSY 15 kΩ " R301 QRD14IJ-16SSY 15 kΩ " R302 QRD14IJ-16SSY 150 kΩ " R303 QRD14IJ-10SSY 10 kΩ " R304 QRD14IJ-10SSY 1 kΩ " R305 QRD14IJ-102SY 1 kΩ " R306 QRD14IJ-102SY 1 kΩ " R311 QRD14IJ-102SY 1 kΩ " R312 QRD14IJ-102SY 1 kΩ " R313 QRD14IJ-102SY 1 kΩ " R314 QRD14IJ-863SY 68kΩ " R315	1				1 1		
R206 GRD14IJ-222SY 2.2 kΩ " R207 QRD14IJ-104SY 100 kΩ " " R208 QRD14IJ-151SY 150 Ω " " R209 QRD14IJ-151SY 150 Ω " " R210 QRD14IJ-151SY 150 Ω " " R211 QRD14IJ-151SY 150 Ω " " R212 QRD14IJ-161SY 100 kΩ " " R271 QRD14IJ-331SY 330 Ω " " R272 QRD14IJ-83SY 15 kΩ " " R273 QRD14IJ-83SY 15 kΩ " " R301 QRD14IJ-63SY 15 kΩ " " R301 QRD14IJ-63SY 15 kΩ " " R303 QRD14IJ-103SY 10 kΩ " " R304 QRD14IJ-103SY 10 kΩ " " R306 QRD14IJ-102SY 1 kΩ " " R301 QRD14IJ-102SY " " " R311 QRD14IJ-102SY " " </td <td></td> <td></td> <td></td> <td></td> <td>1</td>					1		
R206 QRD14IJ-104SY 100 kΩ " R208 QRD14IJ-161SY 150 Ω " R209 QRD14IJ-161SY 150 Ω " R210 QRD14IJ-261SY 150 Ω " R211 QRD14IJ-261SY 150 Ω " R212 QRD14IJ-104SY 100 kΩ " R271 QRD14IJ-222SY 150 Ω " R271 QRD14IJ-222SY 2.2 kΩ " R272 QRD14IJ-331SY 330 Ω " R273 QRD14IJ-183SY 15 kΩ " R274 QRD14IJ-153SY 15 kΩ " R301 QRD14IJ-153SY 15 kΩ " R302 QRD14IJ-153SY 15 kΩ " R303 QRD14IJ-103SY 10 kΩ " R304 QRD14IJ-103SY 10 kΩ " R305 QRD14IJ-303SY 30 kΩ " R306 QRD14IJ-102SY 1 kΩ " R311 QRD14IJ-102SY 1 kΩ " R311 QRD14IJ-102SY 1 " R312 QRD14IJ-102SY 1 " R313 QRD14IJ-102SY 1 " R314 QRD14IJ-50SY 1 " R315 QRD14IJ-							
R207 GRD141J-151SY 150 Ω " <td>1</td> <td></td> <td>1</td> <td></td> <td>i l</td>	1		1		i l		
R209 QRD141J-151SY R210 QRD141J-221SY Z20 Ω R211 QRD141J-151SY 150 Ω R271 QRD141J-161SY 150 Ω R271 QRD141J-161SY 100 kΩ R272 QRD141J-122SY Z2, kΩ R273 QRD141J-331SY 330 Ω R274 QRD141J-331SY 330 Ω R274 QRD141J-331SY 330 Ω R275 QRD141J-363SY 15 kΩ R275 QRD141J-363SY 15 kΩ R301 QRD141J-363SY 15 kΩ R302 QRD141J-363SY 150 kΩ R303 QRD141J-363SY 150 kΩ R304 QRD141J-333SY 33 kΩ R306 QRD141J-303SY 10 kΩ R307 QRD141J-102SY 1 kΩ R307 QRD141J-102SY 1 kΩ R307 QRD141J-102SY 1 kΩ R311 QRD141J-102SY R312 QRD141J-102SY R313 QRD141J-102SY R314 QRD141J-102SY R315 QRD141J-102SY R315 QRD141J-102SY R316 QRD141J-102SY R317 QRD141J-102SY R318 QRD141J-102SY R319 QRD141J-102SY R319 QRD141J-102SY R320 QRD141J-361SY 750 Ω R350 QRD141J-382SY 8.8 kΩ R388 QRD141J-82SSY 8.8 kΩ R350 QRD141J-82SSY 2.2 kΩ R355 QRD141J-82SSY 2.2 kΩ R355 QRD141J-82SSY 8.2 kΩ R356 QRD141J-82SSY 8.2 kΩ R366 QRD141J-22SSY 2.2 kΩ R366 QRD141J-363SY R366 QRD	l .				"		
R210 QRD141J-221SY 220 Ω " " R211 QRD141J-261SY 560 Ω " " R212 QRD141J-151SY 150 Ω " " R272 QRD141J-151SY 150 Ω " " R273 QRD141J-122SY 2.2 kΩ " " R274 QRD141J-182SY 1.8 kΩ " " R275 QRD141J-162SY 1.8 kΩ " " R301 QRD141J-163SY 156 kΩ " " R302 QRD141J-163SY 156 kΩ " " R303 QRD141J-163SY 150 kΩ " " R304 QRD141J-103SY 10 kΩ " " R305 QRD141J-103SY 1 kΩ " " R306 QRD141J-102SY 1 kΩ " " R307 QRD141J-102SY 1 kΩ " " R310 QRD141J-102SY 1 kΩ " " " R311 QRD141J-102SY 1 kΩ " " " R311 QRD141J-102SY " " " " " " " " " " " " " " " " " " "				,,	"		
R211 QRD141J-561SY 560 Ω " " R212 QRD141J-151SY 150 Ω " " R271 QRD141J-194SY 100 kΩ " " R272 QRD141J-222SY 2.2 kΩ " " R273 QRD141J-331SY 330 Ω " " R275 QRD141J-182SY 15 kΩ " " R301 QRD141J-563SY 15 kΩ " " R302 QRD141J-563SY 15 kΩ " " R303 QRD141J-163SY 150 kΩ " " R304 QRD141J-103SY 10 kΩ " " R305 QRD141J-303SY 10 kΩ " " R306 QRD141J-303SY 10 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R314 QRD141J-102SY " " " R316 QRD141J-681SY 680 Ω </td <td></td> <td>1</td> <td></td> <td>"</td> <td>"</td>		1		"	"		
R211				"			
R271				,,	1		
R272 QRD141J-222SY R273 QRD141J-331SY 330 Ω				,,	"		
R273				"	"		
R274	1	1		,,	"		
R275				,,			
R301 QRD141J-683SY R302 GR D141J-563SY F6 kΩ "<				,,	"		
R302 QRD141J-154SY 56 kΩ " R303 QRD141J-154SY 150 kΩ " R304 QRD141J-103SY 10 kΩ " R305 QRD141J-33SSY 1 kΩ " R307 QRD141J-102SY 1 kΩ " R310 QRD141J-102SY " " R311 QRD141J-102SY " " R312 QRD141J-102SY " " R313 QRD141J-102SY " " R314 QRD141J-102SY " " R315 QRD141J-102SY " " R316 QRD141J-102SY " " R317 QRD141J-681SY 680 Ω " " R319 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-222SY 750 Ω " " R350 QRD141J-393SY 39 kΩ " " R351 QRD141J-822SY 8.2 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-82	1			,,	.,		
R303 QRD141J-154SY 150 kΩ " " R304 QRD141J-103SY 10 kΩ " " R305 QRD141J-303SY 33 kΩ " " R306 QRD141J-303SY 30 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R314 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " R318 QRD141J-681SY 680 Ω " " R319 QRD141J-751SY R50 Ω " " R351 QRD141J-82SY 2.2 kΩ " " R352 QRD141J-82SY 8.2 kΩ " " R353 QRD141J-821SY 820 Ω " " R356 QRD141J-821SY 820 Ω				"			
R304 QRD141J-103SY 10 kΩ " R305 QRD141J-333SY 33 kΩ " R306 QRD141J-102SY 1 kΩ " R310 QRD141J-102SY 1 kΩ " R311 QRD141J-102SY 1 kΩ " R312 QRD141J-102SY " " R313 QRD141J-102SY " " R314 QRD141J-102SY " " R315 QRD141J-102SY " " R316 QRD141J-102SY " " R317 QRD141J-681SY 680 Ω " " R318 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-82SY 6.8 kΩ " " R320 QRD141J-82SY 8.2 kΩ " " R351 QRD141J-82SY 8.2 kΩ " " R353 QRD141J-82SY 8.2 kΩ " " R354 QRD141J-82SY 8.2 kΩ " " R355 QRD141J-82SY 8.8 kΩ " "	1		4	"	"		
R305 QRD141J-333SY 33 kΩ " " R306 QRD141J-303SY 30 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " " R319 QRD141J-681SY 680 Ω " " " R319 QRD141J-751SY 750 Ω " " " R351 QRD141J-822SY 8.2 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-82SY 8.2 kΩ " " R355 QRD141J-82SY 8.2 kΩ " " R356 <t< td=""><td></td><td></td><td></td><td></td><td>"</td></t<>					"		
R306 QRD141J-102SY 1 kΩ " " R307 QRD141J-102SY 1 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R314 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-102SY " " " R318 QRD141J-681SY 680 Ω " " R319 QRD141J-682SY 6.8 kΩ " " R320 QRD141J-751SY 750 Ω " " R351 QRD141J-822SY 8.2 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-821SY 820 Ω " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-821SY 820 Ω				,,	,,		
R307 QRD141J-303SY 30 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " " R312 QRD141J-102SY " </td <td>1</td> <td>1</td> <td>1</td> <td>,,</td> <td>"</td>	1	1	1	,,	"		
R310 QRD141J-102SY " " " " " " " " " " " " " " " " " " "		l .	1 -	"	"		
R311 QRD141J-102SY "	1	i	1	"	"		
R312 QRD141J-102SY "					,,		
R313 QRD141J-102SY "	1		,,	,,	"		
R314 QRD141J-102SY "			,,	"	"		
R315 QRD141J-102SY " " " R316 QRD141J-102SY " " " " R317 QRD141J-681SY 680 Ω " " " R318 QRD141J-682SY 6.8 kΩ " " " R319 QRD141J-751SY 750 Ω " " " R320 QRD141J-22SY 2.2 kΩ " " " R351 QRD141J-82SY 8.2 kΩ " " " R352 QRD141J-82SY 8.2 kΩ " " " R354 QRD141J-821SY 820 Ω " " " R355 QRD141J-82SY 8.8 kΩ " " " " R356 QRD141J-821SY 820 Ω " " " " " " R357 QRD141J-223SY 22 kΩ " </td <td></td> <td>1</td> <td>"</td> <td>,,</td> <td></td>		1	"	,,			
R316 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " " R318 QRD141J-682SY 6.8 kΩ " " " R319 QRD141J-751SY 750 Ω " " " R320 QRD141J-393SY 39 kΩ " " " R351 QRD141J-822SY 8.2 kΩ " " " R352 QRD141J-821SY 820 Ω " " " R354 QRD141J-821SY 820 Ω " " " R355 QRD141J-823SY 28 kΩ " " " R355 QRD141J-821SY 820 Ω " " " R356 QRD141J-821SY 820 Ω " " " R357 QRD141J-223SY 22 kΩ " " " R359 QRD141J-223SY 22 kΩ " " " R403 QRD141J-222SY 2.2 kΩ " " " R406 QRD141J-301SY " "	l .		"	"	"		
R317 QRD141J-681SY 680 Ω " " R318 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-751SY 750 Ω " " R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-821SY 820 Ω " " R357 QRD141J-821SY 820 Ω " " R358 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY 56 kΩ " " R406 QRD141J-222SY 2.2 kΩ " " R407 QRD141J-301SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY "					"		
R318 QRD14IJ-682SY 6.8 kΩ " " R319 QRD14IJ-751SY 750 Ω " " R320 QRD14IJ-22SY 2.2 kΩ " " R351 QRD14IJ-393SY 39 kΩ " " R352 QRD14IJ-822SY 8.2 kΩ " " R353 QRD14IJ-82SY 1.5 kΩ " " R354 QRD14IJ-821SY 820 Ω " " R355 QRD14IJ-682SY 6.8 kΩ " " R357 QRD14IJ-182SY 1.8 kΩ " " R358 QRD14IJ-821SY 820 Ω " " R359 QRD14IJ-223SY 22 kΩ " " R403 QRD14IJ-563SY 56 kΩ " " R404 QRD14IJ-222SY " " " R405 QRD14IJ-222SY " " " R406 QRD14IJ-301SY " " " R409 QRD14IJ-301SY " " " R410 QRD14IJ-473SY "	1		680 Ω	"	"		
R319 QRD141J-751SY 750 Ω " " R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-821SY 820 Ω " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-821SY 820 Ω " " R357 QRD141J-821SY 820 Ω " " R359 QRD141J-821SY 820 Ω " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY 2.2 kΩ " " R405 QRD141J-222SY " " " R406 QRD141J-224SY " " " R407 QRD141J-301SY " " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-733SY "				"	"		
R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-152SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-82SY 1.8 kΩ " " R357 QRD141J-821SY 820 Ω " " R359 QRD141J-823SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY 2.2 kΩ " " R405 QRD141J-222SY " " " R406 QRD141J-222SY 2.2 kΩ " " R407 QRD141J-224SY 220 kΩ " " R409 QRD141J-301SY " " " R410 QRD141J-473SY 47 kΩ " " R411 QRD141J-473SY <td< td=""><td>1</td><td>QRD141J-751SY</td><td>750 Ω</td><td>"</td><td>"</td></td<>	1	QRD141J-751SY	750 Ω	"	"		
R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-152SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-862SY 6.8 kΩ " " R357 QRD141J-82SY 1.8 kΩ " " R358 QRD141J-863SY 820 Ω " " R403 QRD141J-563SY 22 kΩ " " R404 QRD141J-563SY 56 kΩ " " R405 QRD141J-222SY " " " R406 QRD141J-222SY " " " R407 QRD141J-301SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R413 QRD141J-153SY "	R320	QRD141J-222SY	2,2 kΩ	"	"		
R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-152SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-862SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R359 QRD141J-563SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY 2.2 kΩ " " R405 QRD141J-222SY " " " R406 QRD141J-222SY " " " R407 QRD141J-224SY " " " R408 QRD141J-301SY 300 Ω " " R410 QRD141J-301SY " " " R411 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY "		ORD141J-393SY	39 kΩ	"	"		
R353 QRD141J-152SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " " R355 QRD141J-393SY 39 kΩ " " " R356 QRD141J-682SY 6.8 kΩ " " " R357 QRD141J-821SY 820 Ω " " " R359 QRD141J-223SY 22 kΩ " " " R403 QRD141J-563SY " " " " R404 QRD141J-222SY 2.2 kΩ " " " R405 QRD141J-222SY " " " " R407 QRD141J-224SY 220 kΩ " " " R408 QRD141J-301SY 300 Ω " " " R410 QRD141J-473SY 47 kΩ " " " R411 QRD141J-224SY 220 kΩ " " " R413 QRD141J-224SY 220 kΩ " " " R414 QRD141J-153SY " "<			1	"	"		
R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 k Ω " " R356 QRD141J-682SY 6.8 k Ω " " R357 QRD141J-182SY 1.8 k Ω " " R358 QRD141J-23SY 22 k Ω " " R403 QRD141J-563SY 22 k Ω " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 k Ω " " R406 QRD141J-222SY 2.2 k Ω " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " " R410 QRD141J-473SY " " " " R411 QRD141J-473SY " " " " R413 QRD141J-224SY 220 k Ω " " " R414 QRD141J-53SY 15 k Ω " "	1		1	"			
R356 QRD141J-682SY 6.8 kΩ " " R357 QRD141J-182SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R359 QRD141J-563SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY 2.2 kΩ " " R405 QRD141J-222SY " " " R406 QRD141J-222SY " " " R407 QRD141J-224SY " " " R408 QRD141J-301SY 300 Ω " " R410 QRD141J-301SY " " " R411 QRD141J-473SY " " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY " " " R415 QRD141J-153SY " " " R416 QRD141J-153SY " "	R354	QRD141J-821SY	820 Ω				
R356	R355	QRD141J-393SY	39 kΩ	"	"		
R357 QRD141J-182SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY 56 kΩ " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-224SY " " " R407 QRD141J-224SY " " " R408 QRD141J-301SY " " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY 47 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY 220 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY 15 kΩ " " R416 QRD141J-682SY 6.8 kΩ </td <td>R356</td> <td>QRD141J-682SY</td> <td>6.8 kΩ</td> <td>"</td> <td>"</td>	R356	QRD141J-682SY	6.8 kΩ	"	"		
R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R412 QRD141J-224SY 220 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-53SY 250 kΩ " " R415 QRD141J-153SY " " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	1	QRD141J-182SY	1.8 kΩ				
R403 QRD141J-563SY 22 kΩ " " R404 QRD141J-563SY 56 kΩ " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY 2.2 kΩ " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY 15 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-163SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R358		1 -	Į.	i .		
R403 QRD141J-563SY " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-224SY 220 kΩ " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-301SY " " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY 20 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY 220 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-163SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R359	QRD141J-223SY	22 kΩ		1		
R404 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R412 QRD141J-473SY 220 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-533SY 15 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-682SY 6.8 kΩ " "	R403	QRD141J-563SY	56 kΩ	"			
R405 QRD141J-22SSY 2.2 kΩ R406 QRD141J-224SY 220 kΩ " R407 QRD141J-224SY " " R408 QRD141J-224SY " " R409 QRD141J-301SY " " R410 QRD141J-301SY " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R404		i		į		
R406 QRD141J-224SY R407 QRD141J-224SY $(220 \text{ k}\Omega)$ " " " " " " " " " " " " " " " " " " "	R405						
R407 QRD141J-224SY "" "" "" R408 QRD141J-224SY "" "" "" R410 QRD141J-301SY 300 Ω " " "" R411 QRD141J-301SY " " "" "" R412 QRD141J-473SY 47 kΩ " " " " R413 QRD141J-224SY 220 kΩ " " " R414 QRD141J-224SY " " " " R415 QRD141J-153SY 15 kΩ " " " R416 QRD141J-153SY " " " " R417 QRD141J-682SY 6.8 kΩ " " "	R406			1	•		
R408 QRD141J-224S1 R409 QRD141J-301SY 300 Ω " R410 QRD141J-301SY " " R411 QRD141J-473SY 47 k Ω " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 k Ω " " R414 QRD141J-153SY " " " R415 QRD141J-153SY 15 k Ω " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 k Ω " "			N .	1			
R419 QRD141J-301SY " " " " " " " " " " " " " " " " " " "	R408	- 		ļ			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ŀ		1		
R411 QRD141J-473SY 47 KΩ R412 QRD141J-473SY 7" " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	i		1				
R412 QRD141J-473SY R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "				1	1		
R413 QRD1413-22457 220 KΩ " " " " " " " " " " " " " " " " " "							
R414 QRD1413-22431 R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R413	QRD141J-224SY			<u> </u>		
R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R414		1	1			
R417 QRD141J-682SY 6.8 kΩ " "			1				
R417 QRD1413-68251 [6.8 K12]	4	1	1	1	1		
R418 QRD141J-682SY "	ľ	1	1				
- ·	R418	QRD141J-682SY	1."	⊥ ″	ــــــــــــــــــــــــــــــــــــــ		

Resistors

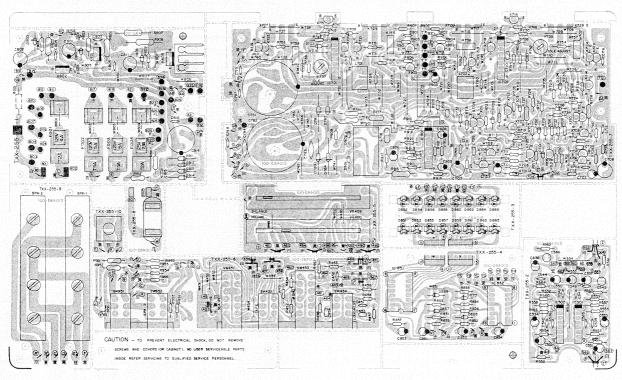
Item No.	Part Number	Rating		Description	
R419	QRD141J-102SY	1kΩ	1/4 W	Carbon	
R420	QRD141J-102SY	••	"	•	
R421	QRD149J-560S	56 Ω	"	,,	Δ
R422	QRD149J-560S	"	"	•	Δ
R423	QRD141J-564SY	560 kΩ	"	"	
R424	QRD141J-564SY	"	"	"	
R461	QRD141J-334SY	330 kΩ	"	"	
R462	QRD141J-334SY	"	"		
R463	QRD141J-104SY	100 kΩ	' '		
R464	QRD141J-104SY	"	"		

∴ : Safety Parts

Others

Item No.	Part Number	Rating	Description
P104	QMV5005-002		2 Pins Plug
S401	QSP0259-107		Select Switch
PHAUX	E03591-41F		Pin Jack
	EWR25J-06DD		Flat Cable
	E03572-019P		Antenna Terminal
	E300098-001		Shield Case
	E43727-001		Tab
	E67125-001		LED Holder (Signal)
	E67126-001		LED Holder (Tuned)
	E67127-001		LED Holder (Stereo)
	QAA2232-002		Tuning Capacitor
	QMV5005-002		2 Pins Plug
	QMV5005-004		4 Pins Plug
	QMV5005-006		6 Pins Plug

8-(2) TXX-255 Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y



Each Individual P.C. Board Location

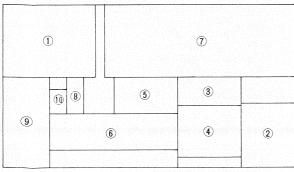


Fig. 17

Note:

The specific symbols (\pm , \pm , \pm , \pm , \pm , etc.) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

②TXX-255-2 : S.E.A. (Sound Effect Amplifier) P.C. Board

Fig. 16

Ass'y

③ TXX-255-3 : L.E.D. P.C. Board Ass'y

4 TXX-255-4 : Power Indicater Driver P.C. Board Ass'y

⑤TXX-255-5 : Volume Control P.C. Board Ass'y

⑥ TXX-255-6 : Mode and Speaker Select Switch P.C. Bo and

Ass'y

⑦ TXX-255 □-7: Main Amp. P.C. Board Ass'y ⑧ TXX-255 □-8: AC Socket P.C. Board Ass'y

9 TXX-255-9 : Speaker Terminals P.C. Board Ass'y

① TXX-255-10 : Headphones Jack P.C. Board Ass'y

Note:

In __ should be indicated an area code according to thetable shown below when placing an order.

Designated Areas	P.C. Board Ass'y
U. K.	TXX-255 EBS
Europe	TXX-255 E

Transistors

Item No.	Part Number		Rating	Description	
		Pc	fT	·	Maker
X701 X702	2SC1775AV(F1)	0.2 W	200 MHz	Silicon	Hitachi
X702	2SC1775AV(F1)	,,	,,	"	"
X704	2SC1775AV(F1)	,,	,,	"	"
X705	2SC2546(E)	0.4 W	90 MHz	"	"
X706	2SC2546(E)	,,	11	"	"
X707	2SA949(O.Y)	3 W	120 MHz	"	Toshiba
X708	2SA949(O.Y)	"	7,7	<i>"</i>	· "
X709	2SA949(O,Y)	,,	,,	"	"
X710	2SA949(O,Y)	"	"	"	
X711	2SA1029(C)	0.2 W	200 MHz	"	Hitachi
X712	2SA1029(C)	"	,,	"	<i>"</i>
X713	2SC2229(O,Y)	0.8 W	120 MHz	"	Toshiba
X714	2SC2229(O,Y)	"	"	"	"
X715	2SC2546(E)	0.4 W	90 MHz	"	Hitachi
X716	2SC2546(E)	"	"	"	"
X717	2SC1775AV(F)	0.2 W	200 MHz	"	"
X718	2SC1775AV(F)	"	"	"	"
X719	2SA872AV(E)	0.3 W	120 MHz	"	"
X720	2SA872AV(E)	,,	"	"	"
X721	2SC2235(O,Y)	0.9 W	,,	"	Toshiba
X722	2SC2235(O.Y)	"	"	"	"
X723	2SA965(O,Y)	<i>"</i>	"	"	"
X724	2SA965(O,Y)	"	"	"	"
X725	2SD845LB(R,O)	120 W	20 MHz	"	• • • • • • • • • • • • • • • • • • • •
X726	2SD845LB(R,O)	• • • • • • • • • • • • • • • • • • • •	"	"	"
X727	2SB755LB(R,O)	"	"	"	"
X728	2SB755LB(R,O)	"	"	"	"
X801	2SD313V(D,E)	30 W	8 MHz	"	Sanyo
X802	2SB507V(D,E)	"	"	"	***
X803	2SD313V(D,E)	"	"	"	"
X901	2SC1775AV(F)	0.2 W	200 MHz	"	Hitachi
X902	2SC1775AV(F)	"	"	"	"
X903	2SA872AV(E)	0.3 W	120 MHz	"	"

Integrated Circuits

integra	integrated Oriodits						
Item No.	Part Number	Rating	Descri	iption			
		Pc		Maker			
IC501	HA1457	0.5 W	1.C.	Hitachi			
1C502	HA1457	"	"	"			
IC701	VC5022		"	Toyo Dengu			
10702	VC5022		"	"			
IC851	BA684	İ	"	"			
IC852	BA684	1.0.1	"	"			
IC901	TA7317P	0.5 W	"	Toshiba			

Diodes

Item No.	Part Number	Rating	Descrip	tion
				Maker
D701	1S2076-31		Silicon	Hitachi
D702	1S2076-31		"	"
D703	1S2076-31		"	"
D704	1S2076-31		"	"
D705	1S2076-31		"	"
D706	1S2076-31		"	"
D707	1S2076-31		"	"
D708	1S2076-31		"	"
D709	1S2076-31		"	"
D710	1S2076-31		"	"
D781	30D2FA-S		"	Nihon Inter
D782	30D2FA-S		••	″ ▲
D783	30D2FA-S		"	″ ⊼
D784	30D2FA-S		"	" <u>A</u>
D801	RD22EB3		Silicon	NEC
			(Zener)	
D802	RD22EB3		. "	"
D803	RD13EB3		''	"

Diodes

Item No.	Part Number	Rating	Descrip			
				Make		
D811	ERB12-02RKL1		Silicon	Fuji	\triangle	
D812	ERB12-02RKL1		"	"	\triangle	
D813	ERB12-02RKL1		. "		\triangle	
D814	ERB12-02RKL1		"	"	\triangle	
D851	SLB-26GG		LED	Toyo	Dengu	
D852	SLB-26GG		"	• •		
D853	SLB-26GG		"	"		
D854	SLB-26GG		"	"		
D855	SLB-26GG		"	"		
D856	SLB-26GG		"	"		
D857	SLB-26GG	4	. ,,	"		
D858	SLB-26GG		"	**		
D859	SLB-26GG		"	"		
D860	SLB-26GG		"	•		
D861	SLB-26GG		"	,,		
D862	SLB-26GG		"	••		
D863	SLB-26GG		"	"		
D864	SLB-26GG		"	••		
D865	SLB-26GG		"	**		
D866	SLB-26GG		"	"		
D867	1S2076-31		Silicon	Hitac	hi	
D868	1S2076-31		••	••		
D869	1S2076-31		,	"		
D870	1S2076-31		"	"		
D901	1S2076-31		"	••		
D902	1S2076-31		**	"		

Coils

Item No.	Part Number	Rating	Description
L701	E04059-1R0	1.0 μΗ	Choke Coil
L702	E04059-1R0	"	"

Capacitors

Capacitors							
Item No.	Part Number	Rating		Description			
C451	QCS31HJ-151Z	160 pF	50 V	Ceramic			
C452	QCS31HJ-151Z	"	"	"			
C453	QFM31HK-183Z	0.018 μF	. ,,	Mylar			
C454	QFM31HK-183Z	"	,,	"			
C531	QEB51EM-475	4.7 μF	25 V	Low Leak Current			
				Electrolytic			
C532	QEB51EM-475	"	"	,,			
C533	QET51AR-476	47 μF	10 V	Electrolytic			
C534	QET51AR-476	"	"	"			
C535	QCS31HJ-101Z	100 pF	50 V	Ceramic			
C536	QCS31HJ-101Z	"	••	"			
C537	QET51AR-476	47 μF	10 V	Electrolytic			
C538	QET51AR-476	"	"	"			
C539	QCS31HJ-820Z	82 pF	50 V	Ceramic			
C540	QCS31HJ-820Z	"	"	"			
C541	QCS31HJ-560Z	56 pF	"	"			
C542	QCS31HJ-560Z	"	"	" "			
C543	QCS31HJ-271Z	270 pF	''	"			
C544	QCS31HJ-271Z	"	"	"			
C545	QEZ0046-475	4.7 µF	"	Electrolyt ic			
C546	QEZ0046-475	"	"	"			
C549	QET51ER-476	47 μF	25 V	"			
C550	QET51ER-476	,,·	"	"			
C701	QET61HR-475Z	4.7 μF	50 V	"			
C702	QET61HR-475Z	"	"	"			
C705	QFM31HK-392Z	3900 pF	"	Mylar			
C706	QFM31HK-392Z	"	,,	"			
C707	QET61CR-107Z	100 μF	16 V	Electroyt ic			
C708	QET61CR-107Z	"	"	"			
C709	QFM31HK-272Z	2700 pF	50 V	Mylar			
C710	QFM31HK-272Z	"	"	"			
A . C . f D							

 $\underline{\Lambda}$: Safety Parts

Capacitors

	Cupucitors							
Ì	Item No.	Part Number	Ra	ting	Description			
ĺ	C711	QCS31HJ-120Z	12 pF	50 V	Ceramic			
	C712	QCS31HJ-120Z	"	"	"			
	C713	QCS31HJ-470Z	47 pF	"	"			
	C714	QCS31HJ-470Z	"	"	"			
	C715	QCS31HJ-470Z	"	"	"			
	C716	QCS31HJ-470Z	"	"	"			
	C717	QFM31HK-473Z	0.047 μF	"	Mylar			
	C718	QFM31HK-473Z	"	"	11			
	C781	QEZ0060-878E	8700 μF	56 V	Electrolytic			
	C782	QEZ0060-878E	"	"	"			
	C783	QCE22HP-103	0.01 μF	500 V	Ceramic			
	C784	QCE22HP-103	<i>"</i>	"	"			
	C785	QCF21HP-103	"	50 V	"			
	C787	QCF21HP-473A	0.047 µF	"	"			
	C788	QCF21HP-473A		"	"			
	C801	QET51ER-107	100 μF	25 V	Electrolytic			
	C802	QET51ER-107	"	"	"			
	C811	QET51CR-227	220 μF	16 V	"			
	C814	QET51CR-228H	2200 µF	"	"			
	C815	QCF21HP-223	0.022 µF	50 V	Ceramic			
	C851	QET51ER-106	10 μF	25 V	Electrolytic			
	C852	QET51ER-106	"	"	"			
-	C853	QET51HR-225	2.2 μF	50 V	"			
	C854	QET51HR-225	"	"	"			
	C901	QCF31HP-223Z	0.022 μF	.,,	Ceramic			
	C902	QCF31HP-223Z	"	"	,,			
	C903	QET51HR-226	22 μF	"	Electrolytic			
	C904	QET61AR-107Z	100 μF	10 V	"			
	C905	QET61CR-226Z	22 µF	16 V	"			
	C906	QET61HR-105Z	1 μF	50 V	"			

Resistors

nesistors						
Item No.	Part Number	Rat	ting	Description		
R001	QRC121K-275EM	$2.7~\mathrm{M}\Omega$	1/2 W	Composition 🛆		
R451	QRD141J-332SY	3.3 kΩ	1/4 W	Carbon		
R452	QRD141J-332SY	"	"	"		
R453	QRD141J-332SY	"	"	"		
R454	QRD141J-332SY	"	"	"		
R455	QRD141J-564SY	560 kΩ	"	"		
R456	QRD141J-564SY	"	"	"		
R457	QRD141J-223SY	22 kΩ	"	"		
R458	QRD141J-223SY	"	"	"		
R459	QVZ5010-009	250 kΩ		Variable (BALANCE)		
R460	QVZ5010-008	"		" (VOLUME)		
R461	QRD141J-333SY	33 kΩ	1/4 W	Carbon		
R551	QRD141J-184SY	180 kΩ	"	"		
R552	QRD141J-184SY	,,	"	"		
R553	QRD141J-102SY	1 kΩ	"	"		
R554	QRD141J-102SY	"	"	"		
R555	QRD141J-222SY	$2.2~\mathrm{k}\Omega$	"	"		
R556	QRD141J-222SY	"	"	' '		
R557	QRD141J-682SY	6.8 kΩ	"	"		
R558	QRD141J-682SY	"	"	"		
R559	QRD141J-103SY	10 kΩ	"	"		
R560	QRD141J-103SY	"	"	"		
R561	QRD141J-562SY	$5.6 k\Omega$	"	"		
R562	QRD141J-562SY	"	"	"		
R563	QRD141J-102SY	1 kΩ	"	"		
R564	QRD141J-102SY	••	"	"		
R701	QRD141J-222SY	$2.2 k\Omega$	"	"		
R702	ORD141J-222SY	"	"	"		
R703	QRD141J-473SY	47 kΩ	"	"		
R704	QRD141J-473SY	"	"	"		
R705	QRD149J-102S	1 kΩ	"	♥		
R706	QRD149J-102S	"	"	∑		
R707	QRD149J-102S	"	"			
R708	QRD149J-102S	,,	"	" A " A " A		
R709	QRD149J-220S	22 Ω	"			

 Λ : Safety Parts

Resistors

Item No. Part Number		Hesistors						
R711	Item No.				Description	Δ		
R717 QRD14J-22SSY 22 kΩ " " A A A A A A A A				1/4 W		<u>⟨\</u> \		
R717 QRD14J-22SSY 22 kΩ " " A A A A A A A A	1		,,	"	,,	\triangle		
R717 QRD14J-22SSY 22 kΩ " " A A A A A A A A						$\overline{\mathbb{A}}$		
R717 QRD14J-22SSY 22 kΩ " " A A A A A A A A						Δ		
R717 QRD14J-22SSY 22 kΩ " " A A A A A A A A	1				!	À		
R719	1	t e		ŀ	1	21\(\sigma\)		
R720 QRD149J-200S "	1			,,	,,	Λ		
R721 QRD149J-100S " " " A A R722 QRD149J-100S " " " A A R724 QRD149J-100S " " " A A R725 QRD149J-100S " " " A A R726 QRD141J-132SY " " " A A R727 QRG017J-822S R728 QRG017J-822S R729 QRD149J-181S " " " A A R730 QRD149J-181S " " " A A R731 QRD149J-561S 560 Ω " " A A R733 QRD149J-561S 560 Ω " " A A R733 QRD149J-181S " " " A A R733 QRD149J-181S " " " A A R736 QRD149J-181S 180 Ω " " " " A R736 QRD149J-181S " " " A R737 QVZ3501-471 " " " A R738 QVZ3501-471 " " " A R739 QRD141J-471SY " " " A R740 QRD141J-391SY " " " A R741 SDT35 350 Ω 1 W W Thermistor R742 SDT35 A Carbon R744 QRD149J-101S " " " A R747 QRD149J-101S " " " A </td <td>1</td> <td></td> <td>,</td> <td>"</td> <td>"</td> <td>$\overline{\triangle}$</td>	1		,	"	"	$\overline{\triangle}$		
R725 ORD141J-132SY " " " R726 ORD141J-132SY " " Oxide Metal Film R727 ORG017J-822S " " " R728 ORD149J-181S " " " R730 ORD149J-181S " " " Δ R731 ORD149J-561S 560 Ω " " Δ R733 ORD149J-561S " " " Δ R733 ORD149J-561S " " " Δ R734 ORD149J-561S " " " Δ R733 ORD149J-181S 180 Ω " " Δ R734 ORD149J-181S 180 Ω " " Δ R737 OV23501-471 " " " " " R739 ORD141J-471SY " " Carbon " " R741 SDT35 350 Ω 1 W Thermistor <	R721	QRD149J-100S	10 Ω	,, .	"			
R725 ORD141J-132SY " " " R726 ORD141J-132SY " " Oxide Metal Film R727 ORG017J-822S " " " R728 ORD149J-181S " " " R730 ORD149J-181S " " " Δ R731 ORD149J-561S 560 Ω " " Δ R733 ORD149J-561S " " " Δ R733 ORD149J-561S " " " Δ R734 ORD149J-561S " " " Δ R733 ORD149J-181S 180 Ω " " Δ R734 ORD149J-181S 180 Ω " " Δ R737 OV23501-471 " " " " " R739 ORD141J-471SY " " Carbon " " R741 SDT35 350 Ω 1 W Thermistor <	1		"	ļ		$\overline{\mathbb{A}}$		
R725 ORD141J-132SY " " " R726 ORD141J-132SY " " Oxide Metal Film R727 ORG017J-822S " " " R728 ORD149J-181S " " " R730 ORD149J-181S " " " Δ R731 ORD149J-561S 560 Ω " " Δ R733 ORD149J-561S " " " Δ R733 ORD149J-561S " " " Δ R734 ORD149J-561S " " " Δ R733 ORD149J-181S 180 Ω " " Δ R734 ORD149J-181S 180 Ω " " Δ R737 OV23501-471 " " " " " R739 ORD141J-471SY " " Carbon " " R741 SDT35 350 Ω 1 W Thermistor <	1				l	$\stackrel{\wedge}{\nabla}$		
R726	1	i e	1 3 kΩ	,,	,,	Σ:7		
R727 QRG017J-822S 8.2 kΩ 1 W Oxide Metal Film R729 QRD149J-181S 180 Ω 1/4 W Carbon Δ R730 QRD149J-181S " " " Δ R731 QRD149J-561S 560 Ω " " Δ R732 QRD14J-473SY 47 kΩ " " Δ R733 QRD14J-181S " " " Δ R736 QRD14J-181S " " " Δ R737 QV23501-471 " " " " Δ R738 QV23501-471 "				,,	"			
R729 QRD149J-181S 180 Ω 1/4 W Carbon Δ R731 QRD149J-561S 560 Ω " " Δ R733 QRD149J-561S " " " Δ R733 QRD14J-473SY " " " Δ R734 QRD14J-181S " " " Δ R736 QRD149J-181S " " " Δ R737 QVZ3501-471 " " " " Δ R738 QVZ3501-471 " " " " " " Δ R738 QVZ3501-471 " <td></td> <td></td> <td>8.2 kΩ</td> <td>1 W</td> <td>Oxide Metal Film</td> <td>)</td>			8.2 kΩ	1 W	Oxide Metal Film)		
R730 QRD149J-181S " " " Δ R731 QRD149J-561S 560 Ω " " " Δ R732 QRD14J-561S " " " Δ R733 QRD14JJ-473SY 47 kΩ " " " Δ R734 QRD14JJ-473SY 180 Ω " " " Δ R735 QRD14JJ-181S 180 Ω " " " Δ R737 QVZ3501-471 1733 " " " " Δ R739 QRD14JJ-471SY " " 1/4 W Carbon R740 QRD14JJ-471SY " 1/4 W Carbon R741 SDT35 350 Ω 1 W Thermistor R742 SDT35 350 Ω 1/4 W Carbon R744 QRD14JJ-391SY 390 Ω 1/4 W Carbon " " " " Δ R744 QRD14JJ-243SY 24 kΩ " " " " Δ R745 QRD14JJ-243SY 24 kΩ " " " Δ R746 QRD14JJ-243SY 1.2 kΩ " " " Δ R747 QRD149J-102S 1.2 kΩ " " " Δ R748 QRD149J-101S 1.0 kΩ " " " Δ R750 QRD149J-100S 1.0 kΩ " " " Δ R751 QRD149J-100S 1.0 kΩ " " " Δ R752 QRD149J-100S 1.0 kΩ " " " Δ R755 QRD149J-10OS 1.0 kΩ " " " Δ R756 QRD149J-4R7S 1.0 kΩ " " " Δ R756 QRD149J-4R7S 1.0 kΩ " " " " Δ R756	i .		,,,	,,				
R733 QRD141J-473SY 47 kΩ "	1	1	180 Ω		Carbon	A		
R733 QRD141J-473SY 47 kΩ "	-		ECO O		.,	<u> </u>		
R733 QRD141J-473SY 47 kΩ "			I			$\stackrel{\wedge}{\mathbb{A}}$		
R735 QRD149J-181S 180 Ω " " Δ R736 QRD149J-181S " " Δ R737 QVZ3501-471 470 Ω 1/2 W Variable R739 QRD141J-471SY " " " R740 QRD141J-471SY " 1/4 W Carbon R741 SDT35 350 Ω 1 W Thermistor R742 SDT35 " " " R743 QRD141J-391SY 390 Ω 1/4 W Carbon R744 QRD141J-391SY " " " R745 QRD149J-391SY " " " R746 QRD149J-122S 1.2 kΩ " " " R747 QRD149J-101S 100 Ω " " Δ R748 QRD149J-100S " " " Δ R751 QRD149J-100S " " " Δ R751 QRD149J-100S " " " Δ R753 QRD149J-30S " " "			47 kΩ	"	"			
R736 QRD149J-181S R737 QVZ3501-471 " " " " " " A A A A	R734	QRD141J-473SY	"					
R737 QVZ3501-471 A70 Ω 1/2 W Variable R738 QVZ3501-471 " " " Carbon R740 QRD141J-471SY " 1/4 W Carbon R741 SDT35 R742 SDT35 " " " " " " " R744 QRD141J-391SY " " " " " " " " R745 QRD141J-391SY " " " " " " " " "						Δ		
R738	1		Į.			Δ		
R739 QRD141J-471SY " " " " " " " " " " " " " " " " " " "	1		470 32	1/2 00	variable "			
R741 SDT35 SDT35 SDT35 SDT35 R742 SDT35 SDT35	1		"	1/4 W	Carbon			
R742 SDT35 " " " " " " " " " " " " " " " " " " "	R740	QRD141J-471SY	"	"	"			
R743 QRD141J-391SY 390 Ω 1/4 W Carbon R744 QRD141J-391SY " " " R745 QRD141J-243SY 24 kΩ " " R746 QRD149J-122S 1.2 kΩ " " Δ R747 QRD149J-122S " " " Δ R748 QRD149J-101S 100 Ω " " Δ R750 QRD149J-101S " " " Δ R751 QRD149J-100S " " " Δ R752 QRD149J-100S " " " Δ R753 QRD149J-100S " " " Δ R754 QRM024K-R22 0.22 Ω 2 W Metal Plate Δ R755 QRM024K-R22 " " " Δ R756 QRM024K-R22 " " " Δ R757 QRD149J-4R7S " " " Δ R760 QRD149J-4R7S " " " Δ <			350 Ω	1	Thermistor			
R744 QRD141J-391SY QRD141J-243SY " " " R746 QRD141J-243SY QRD149J-122S R747 " " " " R747 QRD149J-122S 			"					
R745 QRD141J-243SY " " " R746 QRD141J-243SY " " " " R747 QRD149J-122S " " " Δ R748 QRD149J-101S 100 Ω " " Δ R750 QRD149J-101S " " " Δ R751 QRD149J-100S " " " Δ R752 QRD149J-100S " " " Δ R753 QRD149J-100S " " " Δ R754 QRD149J-100S " " " Δ R754 QRD149J-100S " " " Δ R755 QRM024K-R22 " " " Δ R756 QRM024K-R22 " " " Δ R759 QRD149J-4R7S " " Δ R760 QRD149J-4R7S " " " Δ R761 QR20050-100 " " " Δ R801 <	1		390 12	1/4 W	Carbon			
R746 QRD141J-243SY " " " A R747 QRD149J-122S " " " A R748 QRD149J-101S 100 Ω " " A R749 QRD149J-101S 100 Ω " " A R750 QRD149J-101S 10 Ω " " A R751 QRD149J-100S " " " A R752 QRD149J-100S " " " A R754 QRD149J-100S " " " A R755 QRM024K-R22 0.22 Ω 2 W Metal Plate Δ R756 QRM024K-R22 " " " A R757 QRM024K-R22 " " " A R759 QRD149J-4R7S 4.7 Ω 1/4 W Carbon A R760 QRD149J-4R7S " " " A R761 QRZ0050-100 " " " A R801 QRG017J-680S 8 Ω 1 W <td>1</td> <td></td> <td>24 kΩ</td> <td>"</td> <td>"</td> <td></td>	1		24 kΩ	"	"			
R748 QRD149J-122S " " A R749 QRD149J-101S 100 Ω " " A R750 QRD149J-101S " " A A R751 QRD149J-100S " " A A R752 QRD149J-100S " " A A R753 QRD149J-100S " " " A R754 QRD149J-100S " " " A R755 QRM024K-R22 0.22 Ω 2 W Metal Plate Φ R756 QRM024K-R22 " " " A R757 QRM024K-R22 " " " A R758 QRM024K-R22 " " " A R759 QRD149J-4R7S 4.7 Ω 1/4 W Carbon A R760 QRD149J-4R7S " " " A R761 QRZ050-100 " " " A R802 QRG017J-680S " " " A </td <td>R746</td> <td>···</td> <td>",</td> <td>"</td> <td>"</td> <td></td>	R746	···	",	"	"			
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852	R747	QRD149J-122S	1.2 kΩ	ļ	"	Δ		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852	1 -					Ÿ		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852	1		100 12			<u>∧</u>		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852			10.0	.,	"	A.		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852			","	"	"	Λ		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852	R753	QRD149J-100S			"	$\overline{\mathbb{A}}$		
R756 QRM024K-R22 " " " \triangle R757 QRM024K-R22 " " " \triangle R758 QRM024K-R22 " " " \triangle R759 QRD149J-4R7S " " \triangle \triangle R760 QRD149J-4R7S " " \triangle \triangle R761 QRZ0050-100 " " " \triangle \triangle R801 QRG017J-680S 68 Ω 1 W Oxide Metal Film \triangle \triangle R802 QRG017J-680S " " " \triangle R803 QRD129J-392 3.9 k Ω 1/2 W Carbon \triangle R804 QRD129J-392 " " " \triangle R807 QRG027J-121 " " " \triangle R808 QRD141J-332SY 3.3 k Ω 1/4 W Carbon \triangle R811 QRD129J-2R7 " " " \triangle R851 QRD141J-272SY 2.7 k Ω 1/4 W " \triangle R852	1					Ÿ		
R757 QRM024K-R22 " " " $\frac{1}{4}$					Metal Plate	<u> </u>		
R758 QRM024K-R22 " " " A A A A A A A A A A A A A A A A A	1		1		,,	A		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1		"	"	,,			
R802 QRG017J-680S " " " Δ R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 2.7 Ω 1/2 W " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " " Δ R852 QRD141J-272SY " " " " " " R853 QRD141J-390SY 39 Ω " " " " " R855 QRD141J-103SY " " " " " " R857 QRD141J-473SY " " " " " " " R858 QRD141J-473SY " " " " " " "<	1		4.7 Ω	1/4 W	Carbon	\triangle		
R802 QRG017J-680S " " " Δ R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 2.7 Ω 1/2 W " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " " Δ R852 QRD141J-272SY " " " " " " R853 QRD141J-390SY 39 Ω " " " " " R855 QRD141J-103SY " " " " " " R857 QRD141J-473SY " " " " " " " R858 QRD141J-473SY " " " " " " "<	R760	QRD149J-4R7S	"	"	"	⚠		
R802 QRG017J-680S " " " Δ R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 2.7 Ω 1/2 W " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " " Δ R852 QRD141J-272SY " " " " " " R853 QRD141J-390SY 39 Ω " " " " " R855 QRD141J-103SY " " " " " " R857 QRD141J-473SY " " " " " " " R858 QRD141J-473SY " " " " " " "<	1			1/2 W		Ţ		
R802 QRG017J-680S " " " Δ R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 2.7 Ω 1/2 W " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " " Δ R852 QRD141J-272SY " " " " " " R853 QRD141J-390SY 39 Ω " " " " " R855 QRD141J-103SY " " " " " " R857 QRD141J-473SY " " " " " " " R858 QRD141J-473SY " " " " " " "<	1			1 101	Ovida Mass I Eile	<u> </u>		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1		00 77	,, vv	"	<u>₩</u>		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1		3.9 kΩ	1/2 W	Carbon	$\overline{\Delta}$		
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	R804	QRD129J-392	"	"	"	Δ		
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "			120 Ω	2 W	Oxide Metal Film	\triangle		
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	1		2250	1/4 141	" Cl	\triangle		
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	1		1		Carbon "	^\		
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	-				"	<u>~</u>		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			2.7 kΩ	1/4 W	"	د		
R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	l .			,,				
R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	t i	_						
R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "		-						
R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	1		1					
R858 QRD141J-473SY " " "	1							
R901 QRD141J-222SY 2.2 kΩ " "								
	R901	QRD141J-222SY	2.2 kΩ	"	"			

Resistors

Item No.	Part Number	Ra	ting	Description
R902	QRD141J-222SY	2.2 kΩ	1/4 W	Carbon
R903	QRD141J-102SY	$1 k\Omega$	""	"
R904	QRD141J-102SY	"	"	
R905	QRD141J-123SY	12 kΩ	"	*
R906	QRD141J-123SY	"	.,	"
R907	QRD141J-103SY	10 kΩ	"	•
R908	QRD141J-332SY	$3.3 k\Omega$	"	,
R909	QRD141J-683SY	68 kΩ	"	,,
R910	QRD141J-563SY	56 kΩ	"	"
R911	QRD141J-183SY	18 kΩ	"	"
R912	QRD141J-683SY	68 kΩ	"	"
R913	QRD141J-153SY		"	"
R914	QRD141J-184SY	180 kΩ	"	"
R915	QRG017J-471S	470 Ω	1 W	Oxide Metal Film A
R916	QRD141J-151SY	150 Ω	1/4 W	Carbon
R917	QRD141J-223SY	22 kΩ	"	ri .
R918	QRD141J-104SY	100 kΩ	"	"
R919	QRD141J-104SY	,,	"	"
R920	QRD141J-104SY	"	"	"
R921	QRD141J-563SY	56 kΩ	"	"
R951	QR D129J-221	220 Ω	1/2 W	
R952	QRD129J-221	"	"	
R953	QRD141J-332SY	3.3 kΩ	1/4 W	"
R954	QRD141J-332SY	"	"	"
R955	QRD141J-681SY	680 Ω	"	
R956	QRD141J-681SY	"	"	"

Others

Item No.	Part Number	Rating	Description
	EWS014-027		Socket Wire
	E300821-001		LED Holder
	EWS012-032		Socket Wire Ass'y
	EWS016-019		
RY901	ESK6D24-213		Relay Switch
	EWS017-017		Socket Wire Ass'y
	EWS012-033		
	EWR24J-10DD		Flat Cable
	EWR25J-10DD		
	E03572-007EM		Speaker Terminal
	E300160-004		Heat-sink
	E48965-002		Fuse Clip
	E61537-002		Heat-sink
SPK	QSP0229-019		Push Switch
			(Speaker select)

⚠: Safety Parts

8-(3) TAP-283 S.E.A. (Sound Effect Amplifier) Controls P.C. Board Ass'y

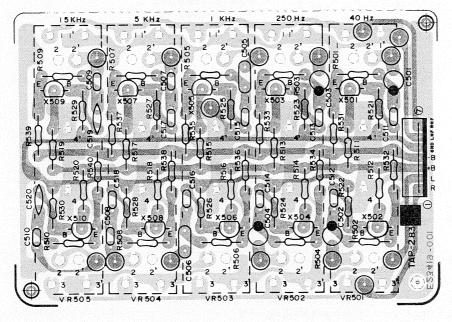


Fig. 18

Transistors

Item No.	Part Number		Rating	Descrip	tion
		Pc	fT		Maker
X501	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X502	2SC1775AV(F)	"	,,	""	"
X503	2SC1775AV(F)	"	"	","	"
X504	2SC1775AV(F)	"	"	"	"
X505	2SC1775AV(F)	"	"	"	"

Transistors

Item No.	Part Number		ating	Description	
		Pc	fT		Maker
X506	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X507	2SC1775AV(F)	"	"	"	
X508	2SC1775AV(F)	"	"	"	,,
X509	2SC1775AV(F)	"	"	"	**
X510	2SC1775AV(F)	17	"	"	"

Capacitors

Capacitors							
Item No.	Part Number	Rat	ing	Description			
C501	QET61HR-475Z	4.7 μF	50 V	Electrolytic			
C502	QET61HR-475Z	"	"	"			
C503	QET61HR-474Z	0.47 μF	"	"			
C504	QET61HR-474Z	"	"	"			
C505	QFM31HK-124Z	0.12 μF	"	Mylar			
C506	QFM31HK-124Z	"	"	"			
C507	QFM31HK-273Z	0.027 µF	••	"			
C508	QFM31HK-273Z	· · ·	"	"			
C509	QFM31HK-562Z	5600 pF	"	"			
C510	QFM31HK-562Z	"	"				
C511	QFM31HK-223Z	0.022 µF	"	"			
C512	QFM31HK-223Z	"	"	"			
C513	QFM31HK-822Z	8200 pF	"	"			
C514	QFM31HK-822Z	" .	"	"			
C515	QFM31HK-332Z	3300 pF	"	"			
C516	QFM31HK-332Z	"	"	"			
C517	QFM31HK-102Z	1000 pF	"	**			
C518	QFM31HK-102Z	"	"	"			
C519	QCS21HJ-681	680 pF	"	Ceramic			
C520	QCS21HJ-681	"	"	"			

Resistors

Item No.	Part Number	Ra	ting	Description
R501	QRD141J-122SY	1.2 kΩ	1/4 W	Carbon
R502	QRD141J-122SY	"	"	"
R503	QRD141J-122SY	"	"	"
R504	QRD141J-122SY	"	"	"
R505	QRD141J-122SY	"	"	"
R506	QRD141J-122SY	"	"	"
R507	QRD141J-122SY	"	"	"
R508	QRD141J-122SY	"	"	"
R509	QRD141J-122SY	"	"	"
R510	QRD141J-122SY	"	"	"
R511	QRD141J-391SY	390 Ω	"	"
R512	QRD141J-391SY	"	"	"
R513	QRD141J-391SY	"	"	"
R514	QRD141J-391SY	"	"	"
R515	QRD141J-391SY	"	"	"

Resistors

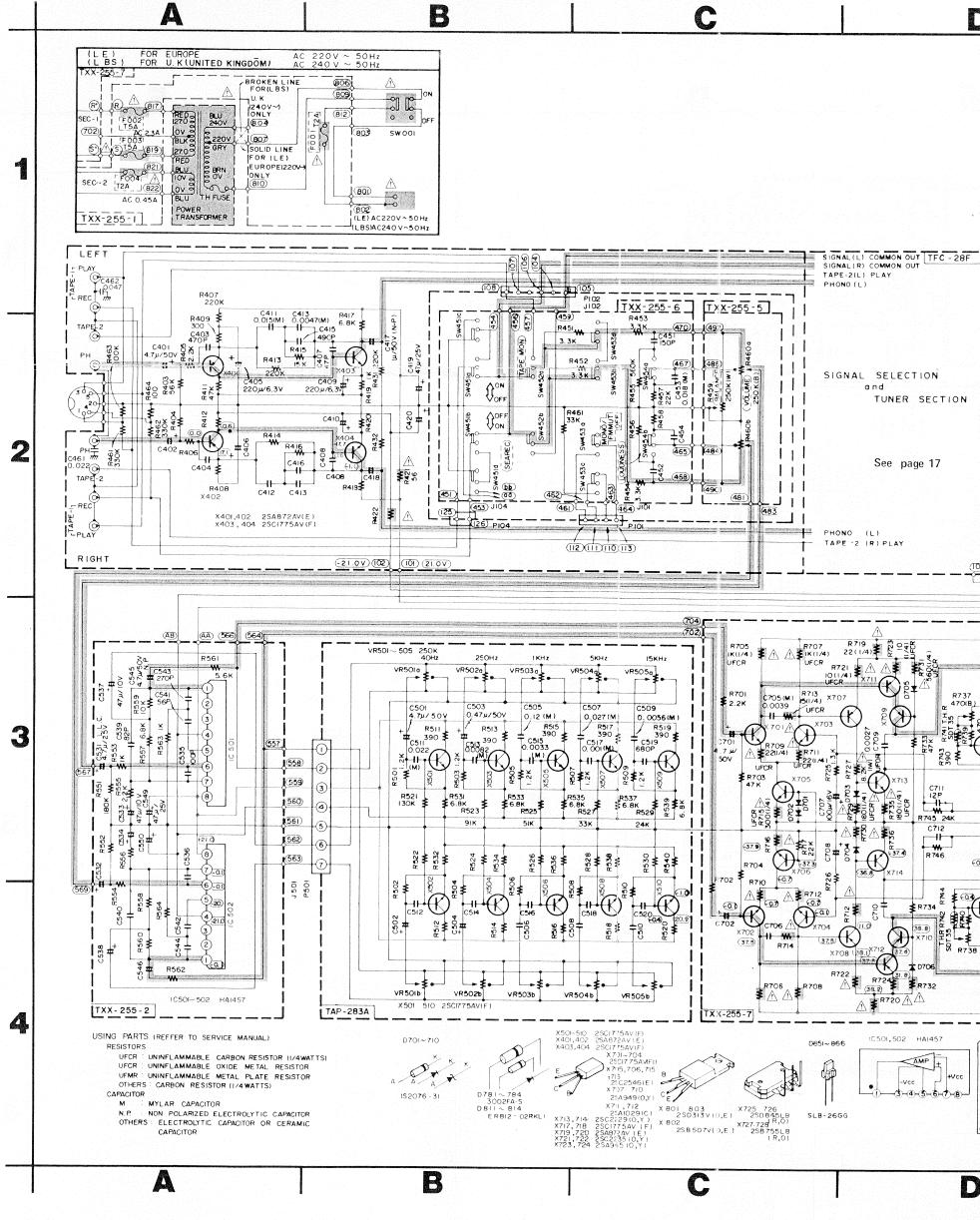
116334013								
Item No.	Part Number	Ra	ting	Description				
R516	QRD141J-391SY	390 Ω	1/4 W	Carbon				
R517	QRD141J-391SY	"	"	"				
R518	QRD141J-391SY	"	"	"				
R519	QRD141J-391SY	"	"	"				
R520	QRD141J-391SY	"	"	"				
R521	QRD141J-134SY	130 kΩ	"	"				
R522	QRD141J-134SY	"	"	"				
R523	QRD141J-913SY	91 kΩ	"	"				
R524	QRD141J-913SY	"	"	"				
R525	QRD141J-513SY	51 kΩ	"	"				
R526	QRD141J-513SY	"	"	"				
R527	QRD141J-333SY	33 kΩ	"	"				
R528	QRD141J-333SY	"	"	"				
R529	QRD141J-243SY	24 kΩ	"	"				
R530	QRD141J-243SY	"	"	"				
R531	QRD141J-682SY	6.8 kΩ	"	"				
R532	QRD141J-682SY	"	"	"				
R533	QRD141J-682SY	"	"	"				
R534	QRD141J-682SY	"	"	"				
R535	QRD141J-682SY	"	"	"				
R536	QRD141J-682SY	"	"	"				
R537	QRD141J-682SY	"	"	"				
R538	QRD141J-682SY	"	"	"				
R539	QRD141J-682SY	"	"	"				
R540	QRD141J-682SY	"	<u>"</u>	"				

Others

Item No.	Part Number	Rating	Description	
VR501	QVZ5010-002		Variable	(40 Hz)
VR502	QVZ5010-002		"	(250 Hz)
VR503	QVZ5010-002		"	(1 kHz)
VR504	QVZ5010-002		"	(5 kHz)
VR505	QVZ5010-002		"	(15 kHz)
	QMV5005-007		Pin Plug	Ass'y

9. Accessories List

Item No.	Part Number	Description	Q'ty
1	E30580-820A	Instruction Book	1
2	BT20013C	Warranty Card (for U. K. only)	1
3	E03614-004	FM Antenna	1
4	E41202-2	Envelope for Instruction Book	1



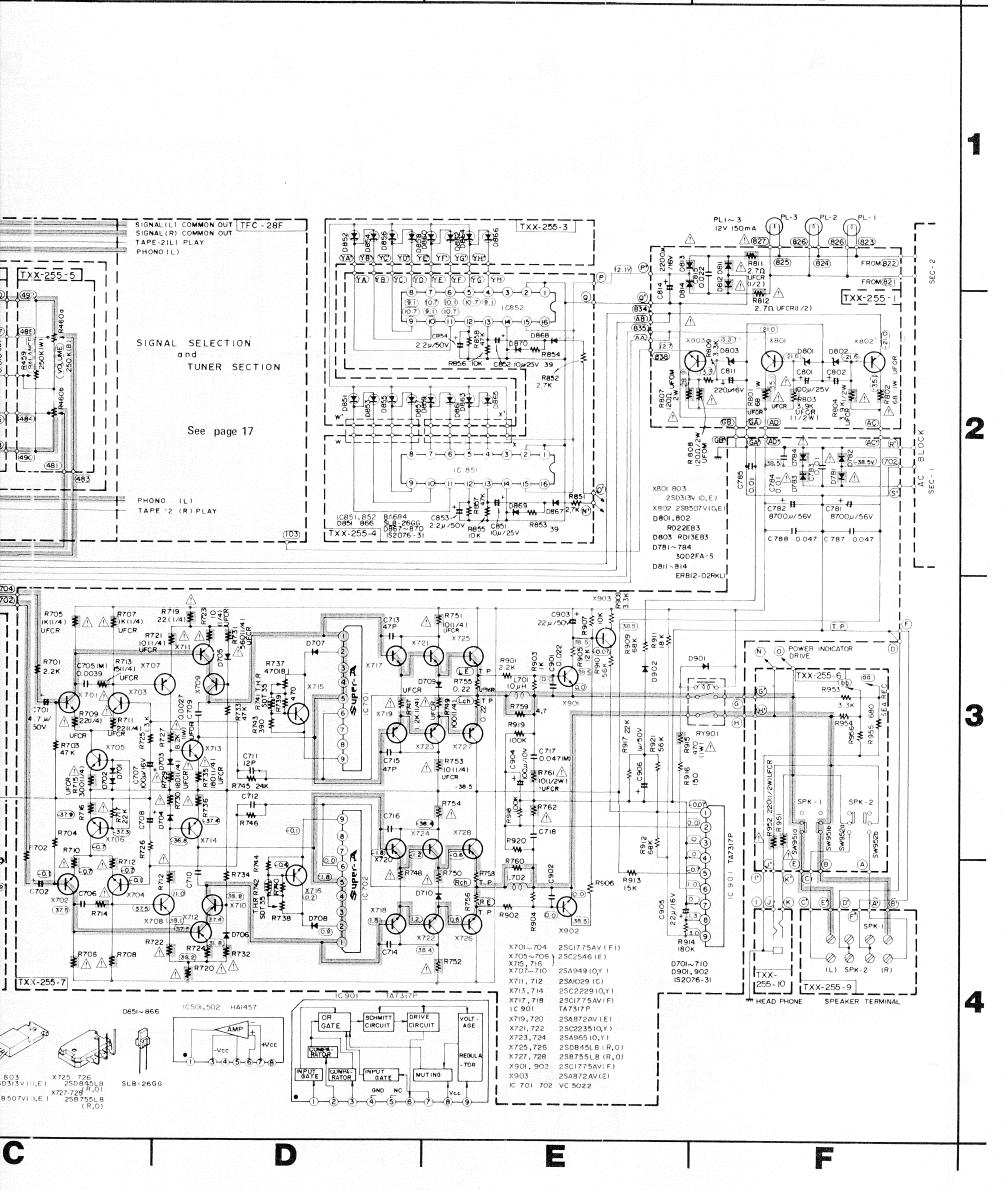
Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TFC-28E	FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y	8
TXX-255	Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y	11

Notes:

- 1. shows DC voltage to the chassis with no signal input.
- 2. * shows DC voltage to the chassis when 10 mV antenna input applied.
- 3. Voltage values in are positive.
- 4. Voltage values in ____ are negative.
- 5. —— indicates positive B power supply.
- 6. indicates negative B power supply.
- 7. indicates signal path.

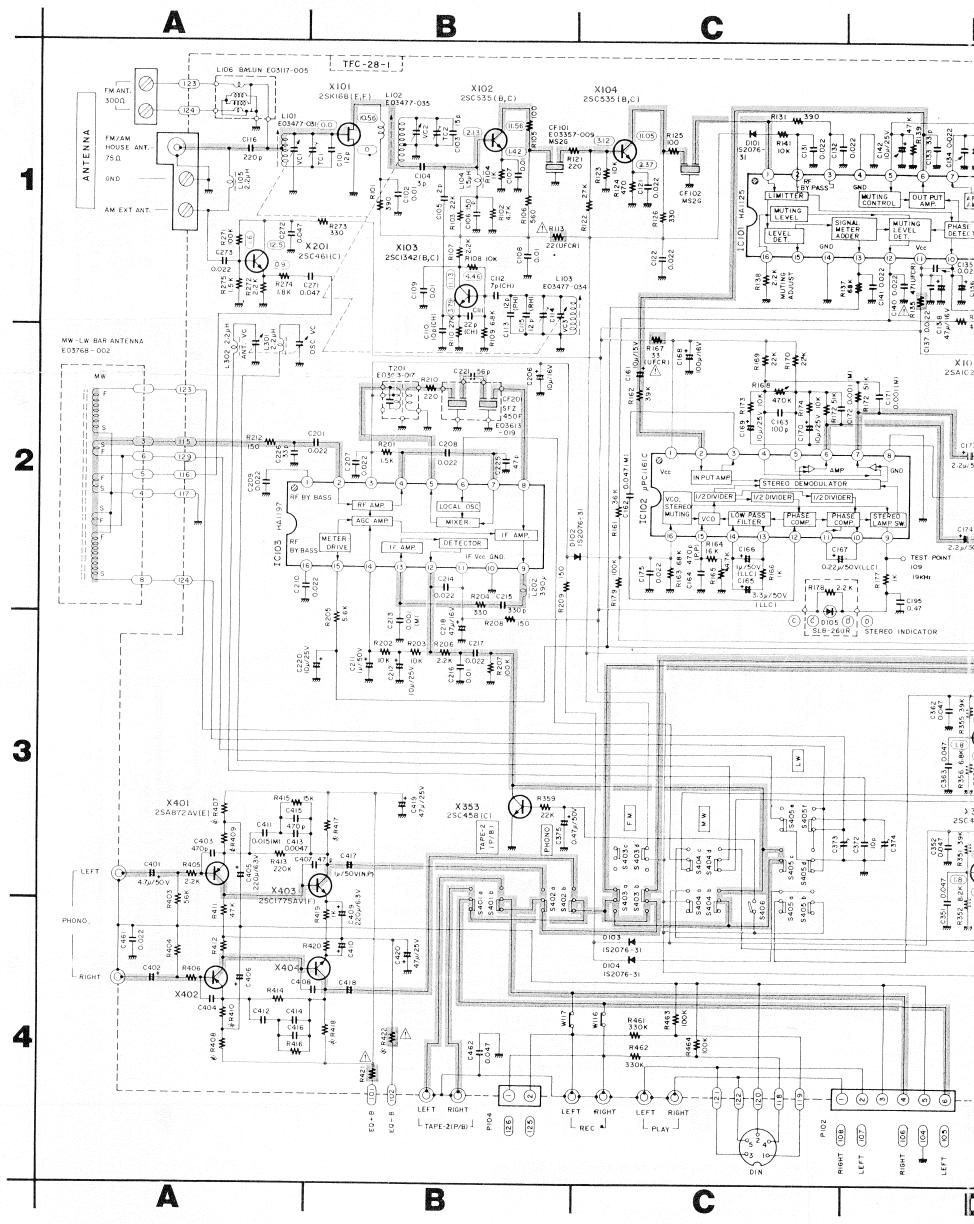
- 8. When replacing the those marked with to ensure safety.
- 9. Parts in red indicate
- 10. This is the standard The design and connotice.



ssis with no signal input. e chassis when 10 mV

ipply. upply.

- 8. When replacing the parts in the darkened area () and those marked with \triangle , be sure to use the designated parts to ensure safety.
- 9. Parts in red indicate transistors or ICs.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.



Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TFC-28E	FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y	8
TXX-255	Mais Assa Barre C. I. I.O.I. E.	

Notes:

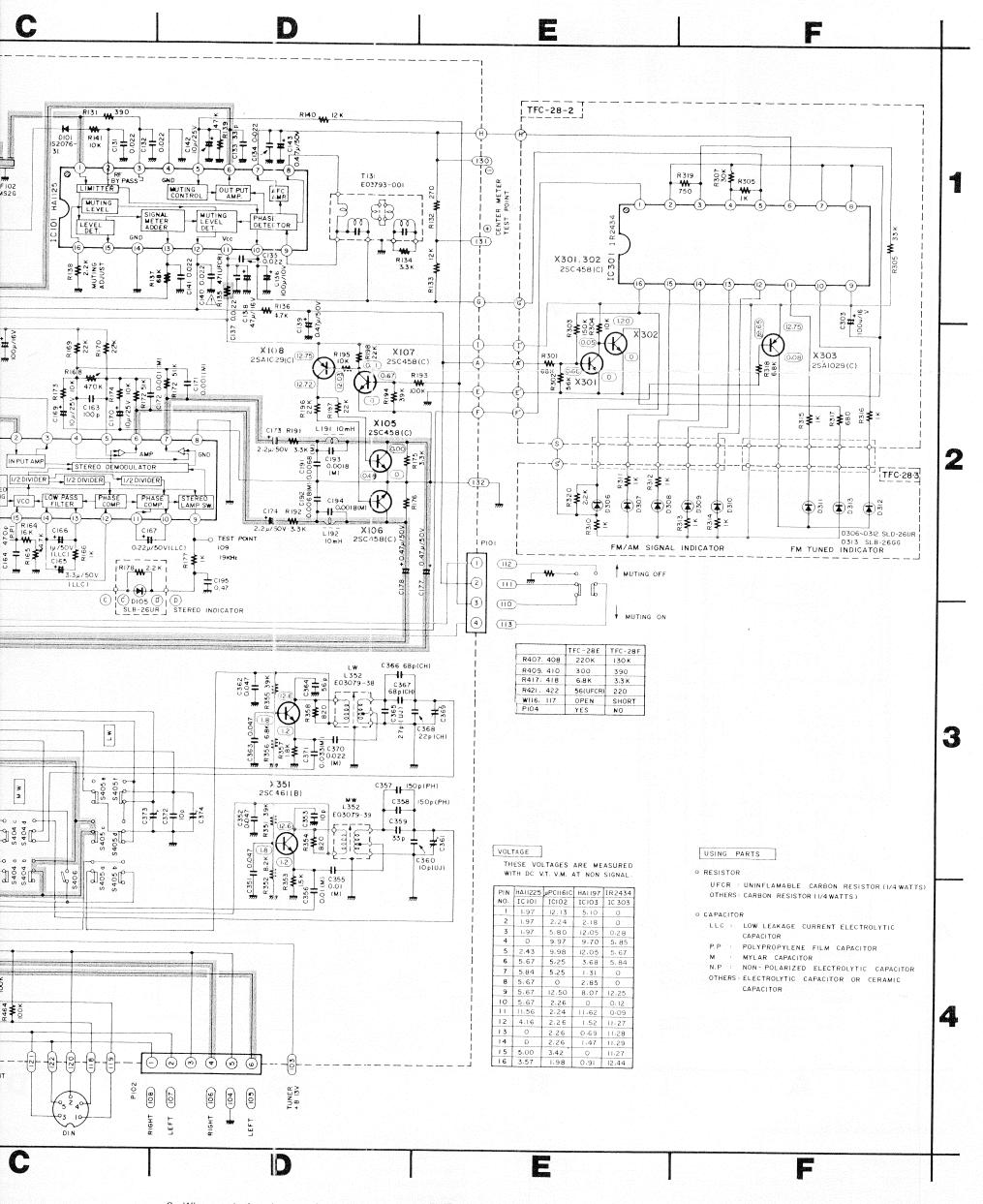
- shows DC voltage to the chassis with no signal input.
 * shows DC voltage to the chassis when 10 mV
- antenna input applied.
- 3. Voltage values in ___ are positive.4. Voltage values in ___ are negative.
- indicates positive B power supply.
- 6. indicates negative B power supply.7. similar indicates signal path.
- 9. Parts in red indicat10. This is the standard

8. When replacing the

those marked with

to ensure safety.

 This is the standard The design and d notice.



chassis with no signal input.

the chassis when 10 mV ve. ive.

r supply.

r supply.

- 8. When replacing the parts in the darkened area () and those marked with \triangle , be sure to use the designated parts to ensure safety.
- 9. Parts in red indicate transistors or ICs.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.

11. Packing Materials and Part Numbers

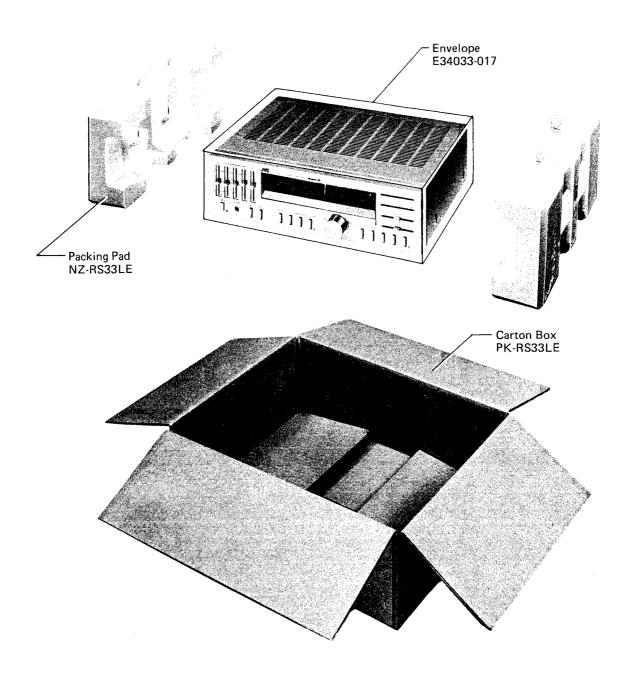


Fig. 19

Power Specifications

Areas	Line Voltage & Frequency	Power Consumptor
Continental Europe	AC 220 V ~, 50 Hz	390 W
U.K. and Australia	AC 240 V ~, 50 Hz	390 W



VICTOR COMPANY OF JAPAN, LIMITED, TOKYO, JAPAN

